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HEATING TECHNOLOGY

RTBSB - BIMETAL ROOM TEMPERATURE CONTROLLERS - NEW

Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
RTBSB-201.000	£19.74	250v ~/50/60 Hz	530⁰C	New	Break contact
RTBSB-201.002	£21.62	250v ~/50/60 Hz	530⁰C	New	Break contact, temperature decrease function
RTBSB-201.010	£24.33	250v ~/50/60 Hz	530⁰C	New	Changeover contact
RTBSB-201.023	£23.59	250v ~/50/60 Hz	530⁰C	New	Break contact, temperature decrease function, on/off switch
RTBSB-201.062	£25.06	250v ~/50/60 Hz	530°C	New	Break contact, temperature decrease function, on/off switch, heating indicator lamp

RTBSB bimetal room temperature controllers for "super flat" surface installation. For control or supervision of temperatures in closed rooms. Valve: Normally closed type.







Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
RTBSB-001.000	£19.74	250v ~; 24V ~/50/60 Hz	530°C	PTR 01.000	Break contact
RTBSB-001.002	£21.62	250v ~; 24V ~/50/60 Hz	530°C	PTR 01.002	Break contact, temperature decrease function
RTBSB-001.010	£24.33	250v ~; 24V ~/50/60 Hz	530°C	PTR 01.010	Changeover contact
RTBSB-001.026	£27.93	250v ~; 24V ~/50/60 Hz	530°C	PTR 01.25/026/054	Changeover contact, on/off switch, permanently operated fan
RTBSB-001.045	£24.57	250v ~; 24V ~/50/60 Hz	-2030°C	PTR 01.045	Changeover contact
RTBSB-001.048	£24.57	250v ~; 24V ~/50/60 Hz	1060°C	PTR 01.048	Changeover contact
RTBSB-001.050	£30.06	250v ~; 24V ~/50/60 Hz	530°C	PTR 01.050	Break contact, on/off switch, indicator lamp, switch/indicator lamp, "additional heating"
RTBSB-001.062	£25.06	250v ~; 24V ~/50/60 Hz	530°C	PTR 01.034/073/074	Break contact, on/off switch, temperature decrease function, heating indicator lamp
RTBSB-001.065	£26.70	250v ~; 24V ~/50/60 Hz	530°C	PTR 01.065	Changeover contact, heating/cooling switch. Climate controller for use with 2 pipe systems, especially heat pumps.
RTBSB-001.075	£28.42	250v ~; 24V ~/50/60 Hz	530⁰C	PTR 01.075	Changeover contact, triple switch "temperature decrease/heating/temperature decrease via external timer"
RTBSB-001.086	£23.10	250v ~; 24V ~/50/60 Hz	530°C	New	Break contact, numeric scale 16, switching capacity 3000w for use with direct electrical heating systems

RTBSB - BIMETAL ROOM TEMPERATURE CONTROLLERS - NEW

RTBSB bimetal room temperature controllers for surface installation. For control or supervision of temperatures in closed rooms. Suited for all types of heating systems. Valve: Normally closed type. Specially suited for use with switch cabinets, see type PTR01.082.







Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
RTBSB-001.096	£23.92	250v ~; 24V ~/50/60 Hz	530°C	New	Break contact, numeric scale 16, switching capacity 3000w, heating indicator lamp
RTBSB-001.202	£24.41	250v ~; 24V ~/50/60 Hz	530⁰C	PTR01.202	Break contact, temperature decrease function, 24V~
RTBSB-001.910	£26.54	250v ~; 24V ~/50/60 Hz	530°C, 1060°C, - 2030°C	PTR 01.902/01.910	Changeover contact, temperature decrease function, internal setting
RTBSB-001.948/1	£30.72	250v ~; 24V ~/50/60 Hz	10…60⁰C	PTR 01.910/2 2 (24V)/PTR 01.948/1	Changeover contact, internal setting, 230V~/24V
PTR01.082	£26.79	250v ~; 24V ~/50/60 Hz	1060ºC	N/A	Changeover contact, 230V~ heating 10 (4) A, cooling 5 (2) A, switching difference approx. 2K, installation on DIN rail. Specially suited for installation in switch cabinets (Pikolo design). For the protection of electrical components against heat, cold and moisture.

RTBSB - BIMETAL ROOM TEMPERATURE CONTROLLERS - NEW

RTBSB bimetal room temperature controllers for surface installation. For control or supervision of temperatures in closed rooms. Suited for all types of heating systems. Valve: Normally closed type. Specially suited for use with switch cabinets, see type PTR01.082.







FTR - BIMETAL ROOM TEMPERATURE CONTROLLERS

Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
FTR 101.000 #21	£88.78	250v ~ /50/60 Hz	530⁰C	N/A	Break contact
FTR 101.002 #21	£92.25	250v ~ /50/60 Hz	530°C	N/A	Break contact, temperature decrease function
FTR 101.010 #21	£100.96	250v ~ /50/60 Hz	530°C	N/A	Changeover contact, temperature decrease function
FTR 101.062 #21	£97.08	250v ~ /50/60 Hz	530°C	New	Break contact, temperature decrease function, on/off switch, heating indicator lamp
FTR 101.065 #21	£113.11	250v ~ /50/60 Hz	530°C	New	Changeover contact, "heating/cooling" switch. Climate controller for 2 pipe systems, especially heat pumps
FTR 101.073 #21	£106.19	250v ~ /50/60 Hz	530°C	N/A	Break contact, temperature decrease function, on/off switch and lamp
FTR 101.075 #21	£111.39	250v ~ /50/60 Hz	530⁰C	N/A	Break contact, triple switch "temperature decrease/heating/temperature decrease via external switch clock", indicator lamp
FTR 101.086 #21	£93.86	250v ~ /50/60 Hz	530°C	N/A	Break contact, switching capacity 300w for direct electrical heating systems
FTR 101.202 #21	£97.47	250v ~ /50/60 Hz	530°C	New	Break contact, temperature decrease function, 24v~
FTR 101.xxx #02	ΡΟΑ	250v ~ /50/60 Hz	530°C	N/A	Controller FTR 101.XXX ~21, same model as above but without frame, housing cover 50 x 50, matt, RAL 9010
FTR 101.xxx #07	POA	250v ~ /50/60 Hz	530°C	N/A	Controller FTR 101.XXX ~21, same model as above but without frame, housing cover 50 x 50, bright, RAL 9010
FTR 101.xxx #09	ΡΟΑ	250v ~ /50/60 Hz	530⁰C	N/A	Controller FTR 101.XXX ~21, same model as above but without frame, housing cover 50 x 50, bright, RAL 1013

FTR bimetal room temperature controllers for flush installation. For control or supervision of temperatures in closed, dry rooms. Suited for all types of heating systems. Valve: Normally closed type. Cover set available in RAL 1013. FTR's available only in packaging units of 16 pieces.







ACCESSORIES FOR CONVERSION TO COLOUR RAL 1013

Model	List £	Туре	Notes	Equipment
RAL 1013	£6.05	Cover set 4	For conversion to white RAL 1013 (cream, white, electrowhite, pearl white	For FTR 101.000, .002, .010, .086,.202
RAL 1013	£8.42	Cover set 5	For conversion to white RAL 1013 (cream, white, electrowhite, pearl white	For FTR 101.062, .073
RAL 1013	£9.25	Cover set 6	For conversion to white RAL 1013 (cream, white, electrowhite, pearl white	For FTR 101.075
	Consists of brilliant housing cover, button, cover screw and switch rocker (if applicable) and optical waveguide.			
RAL 1013	£3.50	Frame set 7	For controllers provided for individual flush installation in RAL 1013, germane to all switch ranges in the same colour	Suited for FTR, FETR, FDTR-U, all models

FTR bimetal room temperature controllers for flush installation. For control or supervision of temperatures in closed, dry rooms. Suited for all types of heating systems. Valve: Normally closed type. Cover set available in RAL 1013. FTR's available only in packaging units of 16 pieces.





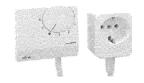


PTR BIMETAL ROOM TEMPERATURE CONTROLLER

Model	List £	Operating Voltage	Setting Ranges	Equipment
PTR 01.401	£31.29	250 V~/50/60HZ	530°C	Cable 1.5m long with adaptor plug. Controller suited for permanent installation or for wall suspension.
PTR 01.411	£34.23	250 V~/50/60HZ	530°C	Cable 1.5m long with coupling. A preassembled plug-in socket enables to plug the controller directly into the wall socket.
XA-PTR 2-14	£14.91	250 V~/50/60HZ	530°C	Plug in socket (as with PTR 01.411), completely prewired, can be completed with room thermostat PTR 01.086.
PTR 01.086	£21.46	250 V~/50/60HZ	530°C	Break contact, numeric scale 16, switching capacity 3000w. For direct electrical heating systems.

PTR bimetal room temperature controllers for surface installation or as a fully packaged device. For the control of temperatures in rooms heated by radiators, closed fireplaces, direct electrical heating systems and marble heating systems etc.







Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
KTRVB-048.100	£47.34	24 V~/=approx 1VA	530°C	PETA 75.500	Internal sensor NTC 47 k Ω , control of climates in mixing chambers by means of a proportionally actuated valve
KTRVB-048.200	£50.78	24 V~/=approx 1VA	21ºC ± 3K	PETA 75.502	Internal sensor NTC 47 k Ω , control of climates in mixing chambers by means of a proportionally actuated valve
KTRVB-042.100	£53.32	24 V~/=approx 1VA	530°C	PETA 75.800/75.803	Internal sensor NTC 47 $k\Omega$, control of climates in individual rooms by means of proportionally actuated valves
KTRVB-042.205	£62.06	24 V~/=approx 1VA	21ºC ± 3K	PETA 75.805	Internal sensor NTC 47 kΩ, control of climates in individual rooms by means of proportionally actuated valves
KTRVB-042.206	£66.18	24 V~/=approx 1VA	21ºC ± 3K	PETA 75.815	Internal sensor NTC 47 kΩ, control of climates in individual rooms by means of proportionally actuated valves
KTRVB-042.207	£56.76	24 V~/=approx 1VA	21ºC ± 3K	PETA 75.833	External sensor NTC 47 kΩ, control of climates in individual rooms by means of proportionally actuated valves.
KTRVB-040.209	£51.68	24 V~/=approx 1VA	21ºC ± 3K	PETA 75.910	Internal sensor NTC 47 kΩ, control of climates in individual rooms by means of proportionally actuated valves

KTRVB ELECTRONIC CONTINUOUS ACTION CONTROLLER

KTRVB electronic continuous action controllers for surface installation. For controlling room temperatures for the permanent valve drives. Controls 2 pipe systems (1 conduit), 4 pipe systems (2 conduits) and mixing chambers. For KTRVB-040.209 sensor LF-22 must be ordered seperately (see page 72 for sensors)







HTRRB ELECTRONIC TEMPERATURE CONTROLLER WITH REMOTE SENSOR

Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
HTRRB-011.010	£71.02	230 V~, 50Hz	10…60⁰C	PETR 01.725	Floor temperature controller, red LED "heating".
HTRRB-011-410	£87.40	230 V~, 50Hz	2080⁰C	PETR 01.825	Tiled stove surface temperature controller, red LED "heating"

HTRRB electronic temperature controllers with remote sensor for surface installation. For floor, wall and ceiling heating systems and tiled stoves. Controls temperatures produced by heating systems.

ACCESSORIES FOR HTRRB ELECTRONIC TEMPERATURE CONTROLLER WITH REMOTE SENSOR

See pages 71 and 96 for sensors which suit this model including HF-8/4-K2, HF-5/4-K3 and THF.







FETR ELECTRONIC TEMPERATURE CONTROLLER WITH REMOTE SENSOR

Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
FETR 101.715 #21	£88.46	230V/50Hz	1050°C	N/A	With remote sensor (4m) for floor temperature range as left. External sensor HF-8 included.
FETR 101.745 #21	£104.92	230V/50Hz	530⁰C	N/A	With internal NTC room sensor and remote sensor (4m) for the limitation of the floor temp. Internal & external sensor HF-8 included.

FETR electronic temperature controller with remote sensor for flush installations in floor wall and ceiling heating systems. For control of temperatures produced by heating systems.

ACCESSORIES FOR FETR ELECTRONIC TEMPERATURE CONTROLLER WITH REMOTE SENSOR

Model	List £	Туре	Notes	Equipment
RAL 1013	£9.61	Cover Set 9	For conversion to colour RAL 1013 (cream white, electrowhite and pearl white).	For FETR 101.175 (consisting of bright housing cover, button, cover screw and if need be, switch rocker and optical wageguide).
RAL 1013	£3.50	Frame Set 7	For controllers provided by individual flush installation in RAL 1013, germane to all switch ranges in the same colour.	For all models of the FTR, FETR and FDTR-U series.

See pages 71 and 96 for sensors which suit this model including HF-8/4-K2 and THF.







HTRRBu CLOCK CONTROLLED ELECTRONIC THERMOSTAT - NEW

Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
HTRRBu-110.117	£98.12	230V/50Hz	530°C	MTRU series	Controller with clock, various settings including holiday. Temperature setting knob with ^o C scale.
HTTRBu-110.121	£114.49	230V/50Hz	530⁰C	MTRU series	Controller with clock and backlight, otherwise identical to above.

HTTRBu clock controlled electronic thermostat for surface installation. For the time-dependent control of temperatures in closed rooms. Suited for all types of heating systems. Valve: normally closed type. This device can also be used as a master controller that enables it to trigger the temperature decrease of other controllers (slaves) such as FETR, FTR and RTBSB models.

ACCESSORIES FOR THE HTRRBu CLOCK CONTROLLED ELECTRONIC THERMOSTAT

Model	List £	Equipment
JZ-17	£4.39	Adaptor plate for installation on a UP box (including fixing screws for the installation of the HTTRBu on the adaptor plate)









FDTR-U CLOCK CONTROLLED ELECTRONIC THERMOSTATS

Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
FDTR-U 101.100 SL/OFF #21	£124.91	230 V~/50Hz	530°C	N/A	Self learning and frost protection functions and valve protection.

FDTR-U clock controlled electronic thermostat for flush installation. For the time-dependent control of temperatures developed by electric and warm water heating systems. This device can also be used as a master controller that enables it to trigger the temperature decrease of other controllers (slaves) such as FETR, FTR and RTBSB models.

ACCESSORIES FOR THE FDTR-U CLOCK CONTROLLED ELECTRONIC THERMOSTAT

Model	List £	Туре	Notes	Equipment
RAL 1013	£4.35	Cover set 8	For conversion to RAL 1013 (cream white, electrowhite and pearl white).	For FDTR-U xxx







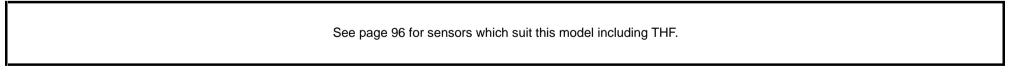
HTRRBu CLOCK CONTROLLED ELECTRONIC THERMOSTAT WITH REMOTE SENSOR - NEW

Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
HTRRBu-110.017	£118.59	230V/50Hz	1040°C	METRU 01.725	Controller with clock, external NTC sensor, temperature decrease function. External sensor HF-8 included.
HTRRBu-110.021	£134.99	230V/50Hz	10…40⁰C	New	Identical to above but with backlight.
HTRRBu-110.122	£130.07	230V/50Hz	540⁰C	New	Controller with floor temperature monitoring function and clock, temperature decrease function. Internal and external sensor HF-8 included.
HTRRBu-110.123	£146.46	230V/50Hz	540⁰C	N/A	Identical to above but with additional backlight.

HTTRBu clock controlled electronic thermostat for surface installation. For the time-dependent control of temperatures in closed rooms. Suited for all types of heating systems. Valve: normally closed type. This device can also be used as a master controller that enables it to trigger the temperature decrease of other controllers (slaves) such as FETR, FTR and RTBSB models.

ACCESSORIES FOR THE HTRRBu CLOCK CONTROLLED ELECTRONIC THERMOSTAT

Model	List £	Equipment
JZ-17	£4.39	Adaptor plate for installation on a UP box (including fixing screws for the installation of the HTTRBu on the adaptor plate)









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Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
FDTR-U 101.130 SL/OFF #21	£133.59	230 V~ /50Hz	10…50⁰C	N/A	Controller with clock, self learning function and frost protection function. External sensor HF-8 included.
FDTR-U 101.131 SL/OFF #21	£142.19	230 V~ /50Hz	2080⁰C	N/A	Controller with clock, self learning function and frost protection function. External sensor HF-5 included.
FDTR-U 101.140 SL/OFF #21	£145.71	230 V~ /50Hz	530°C (Room) 2060°C (Floor)	N/A	Controller with floor temperature monitoring function, frost protection and temperature decrease function. Internal and external sensor HF-8 included.

FDTR-U clock controlled electronic thermostat with remote sensor flush installation for floor, wall and ceiling heating systems and tiled stoves. For time-dependent control of temperatures produced by heating systems.

ACCESSORIES FOR THE FDTR-U CLOCK CONTROLLED ELECTRONIC THERMOSTAT WITH REMOTE SENSOR

Model	List £	Туре	Notes	Equipment
RAL 1013	£4.35	Cover set 8	For conversion to RAL 1013 (cream white, electrowhite and pearl white).	For FDTR-U

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FTRFB RADIO CONTROL TRANSMITTERS - NEW
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Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
FTRFB-280.119	£62.42	2 x AAA Batteries 1.5V	530°C	New	Sensor for the acquisition of inroom temperatures and transmission of sensed data to the controller.
FTRFB-080.119	£60.93	2 x AAA Batteries 1.5V	530°C	New	Sensor for the acquisition of inroom temperatures and transmission of sensed data to the controller
FTRFB-080.120	£66.42	2 x AAA Batteries 1.5V	530°C	New	As above but with comfort/ECO mode selection switch
FTRFB-080.101	£54.72	2 x AAA Batteries 1.5V	530°C	New	Sensor for the acquisition of inroom temperatures and transmission of sensed data to the controller
FTRFBu-180.117	£95.08	2 x AAA Batteries 1.5V	530°C	New	Sensor for the acquisition of inroom temperatures and transmission of sensed data to the controller with clock.
FTRFBu-180.121	£108.19	2 x AAA Batteries 1.5V	530⁰C	New	As above but with backlight (separate battery required for the backlight)

FTRFB radio control transmitters (radio room temperature sensor). For the acquisition of temperatures in living spaces, offices and hotels rooms that are subject to normal pollution. Avoids cutting up plaster works for electric cables.

ACCESSORIES FOR THE FTRFB RADIO CONTROL TRANSMITTERS

Model	List £	Equipment
JZ-18	£4.39	Snap on type adaptor plate for universal installation (controller can be removed).







HTFRA RADIO CONTROL RECEIVERS - NEW

Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
HTFRA-010.101	£81.19	230 V~/50Hz	Loads up to 3000w	New	1 channel radio temperature controller
HTFRB-010.101	£71.99	230 V~/50Hz	Loads up to 3000w	New	1 channel radio temperature controller for surface installation/wall mounting
HTFRD-214.140	£139.68	230 V~/50Hz	N/A	New	4 channel radio temperature controller for installation in the heating circuit distribution cabinet
HTFRD-316.125	£174.20	230 V~/50Hz	N/A	New	8 channel radio temperature controller for installation in the heating circuit distribution cabinet

HTFRA radio control receivers (radio temperature controllers). They enable, if used in conjunction with Alre radio temperature sensors, to realise the control of temperatures in individual rooms. It is particularly qualified in cases in the building reconstruction sphere or wherever heating systems are to be extended.







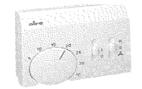
AIR CONDITIONING TECHNOLOGY

PTR BIMETAL CLIMATE CONTROLLERS

Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
PTR 02.801	£34.23	250 V~/50/60Hz	530°C	N/A	1st switch on/off, 2nd switch for fan operation at 3 different speed stages
PTR 02.802	£37.52	250 V~/50/60Hz	530°C	N/A	1st switch heating/off/cooling, 2nd switch for fan operation at 3 different speed stages
PTR 02.803	£37.02	250 V~/50/60Hz	1630⁰C	N/A	Switch off/fast/medium/slow, cooling function only

PTR bimetal climate controllers for surface installation. For control or supervision of temperatures in closed dry rooms. Especially suited for use with air conditioners (fancoils).







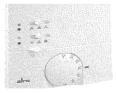
KTBSB BIMETAL CLIMATE CONTROLLERS

Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
KTBSB-112.000	£41.42	250 V~/50/60Hz	530°C	MTR 52.041	On/off switch, 3 stage fan
KTBSB-113.500	£54.49	250 V~/50/60Hz	530°C	MTR 53.068	Switch/lamp: on/off, switch heating/venting/cooling, lamps heating and cooling, 3 stage fan.
ETBSB-113.500	£55.06	250 V~/50/60Hz	530°C	New	Application: direct excitation of a heat pump, otherwise as above

KTBSB bimetal climate controllers for surface installation. For control and supervision of temperatures in dry, closed rooms. Remote control of air conditioners and fancoil units and fancoil systems in living spaces, offices and surgery rooms. Especially suited for the optimisation of central air conditioning systems in hotels and hospitals.

ACCESSORIES FOR THE KTBSB BIMETAL CLIMATE CONTROLLERS

Model	List £	Equipment
JZ-17	£4.39	Adaptor plate for installation on a UP box (including fixing screws for the installation of the KTBSB/ETBSB on the adaptor plate









KTRRB ELECTRONIC CLIMATE CONTROLLERS

Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
KTRRB-112.135	£94.51	250 V~/50/60Hz	530⁰C	METR 75.836/3	3 stage fan output and inlet, internal or external sensors not included
KTRRB-112.136	£95.75	250 V~/50/60Hz	530⁰C	METR 75.836/4	3 stage fan output and inlet and ECO mode. Internal or external sensors not included

KTRRB electronic climate controllers for surface installation. For control of climates in individual rooms. Device with neutral zone for the control of 2 or 4 pipe air conditioning systems. See pages 71, 72 and 86 for internal and external sensors, including HF-2, LF-22 and ALF-2.

ACCESSORIES FOR THE KTRRB ELECTRONIC CLIMATE CONTROLLERS

Model	List £	Equipment
JZ-17	£4.39	Adaptor plate for installation on a UP box (including fixing screws for the installation of the KTRRB on the adaptor plate









KTRRB ELECTRONIC COOLING CEILING CONTROLLERS

Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
KTRRB-042.11	£90.28	24 V~/ = approx.1VA	21º ± 3 K	PETR 75.873/1	Relay output "cooling & heating", internal sensor NTC 47Ω, two colour LED, internal dew point sensor
KTRRB-040.112	£90.16	24 V~/ = approx.1VA	530°C	PETR 75.972/1	Relay output "cooling or heating", internal sensor NTC 47 KΩ, two colour LED, internal dew point sensor
KTRRB-040.213	£93.70	24 V~/ = approx.1VA	21º ± 3 K	PETR 75.975/1	As above but with internal dew point sensor/change over sensor

KTRRB electronic ceiling controllers for surface installation. For control of temperatures that exist at cooling ceilings and walls and/or in warm water heating systems. Both the dew point sensor and the changeover sensor need to be ordered seperately. See pages 71 and 86 for sensors, including HF-2 and ALF-2.







KTRRU ELECTRONIC COOLING CEILING CONTROLLERS - NEW

Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
KTRRU-052.203	£105.60	24V, 50/60Hz	21º ± 3 K	New	Controller with dew point signal switch-in for 2 & 4 pipe systems with internal dew point sensor/change over sensor
KTRRU-052.204	£111.90	24V, 50/60Hz	21º ± 3 K	New	As above but with off/ECO switch and frost protection with internal dew point sensor/change over sensor

KTTRU electronic cooling ceiling controllers for flush installation. For the control of the heating and cooling operations executed by 2 & 4 pipe systems in hotels, living rooms and business premises. Both the dew point sensor and the changeover sensor need to be ordered seperately. See pages 71 and 86 for sensors including HF-2 and ALF-2.







NEHR/WFRRN ELECTRONIC DEW POINT MONITORS AND DEW POINT SENSORS

Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
NEHR 24.401	£79.20	24V~	N/A	N/A	TPS dew point sensors can be connected to the sensor input in parallel.
WFRRN-210.018	£81.01	230V~, 50/60Hz	N/A	New	Up to 5 TPS dew point sensors can be connected to the sensor input in parallel.

NEHR/WFRRN electronic dew point monitors and dew point sensors for fastening on standard rail. For the interruption of the cooling operations in cases where the relative humidity trancends a level of 98%. Specially suited to prevent water from dripping off or to avoid the formation of condensed water on cooling lines. Sensors need to be ordered seperately.

SENSORS FOR THE ABOVE

Model	List £	Equipment
TPS-1	£29.89	Cable length 10m. 2 clips for fixing of the cooling mat. Used for dry construction and metal cooling ceilings
TPS-2	£29.89	Cable length 10m. 2 clips for fixing of the cooling mat & 2 straps. Used with cold water pipes and cooling ceilings
TPS-3 (NEW)	£26.62	Cable length 10m. 2 cable straps. Used with cold water pipes









PFB CONTROLS FOR THE REMOTE OPERATION OF CLIMATE CONTROLLERS

Model	List £	Operating Voltage	Setting Ranges	Replaced which model?	Equipment
PFB 02	£18.11	24V~250V~	N/A	N/A	1st switch on/off, 2nd switch for fan operation at 3 speed stages
PFB 20.801	£20.48	24V~250V~	N/A	N/A	1st switch on/off, 2nd switch for fan operation at 3 speed stages
PFB 20.802	£21.95	24V~250V~	N/A	N/A	1st switch heating/off/cooling, 2nd switch for fan operation at 3 speed stages

PFB controls for the remote operation of climate controllers for surface installation. For remote control of air conditioning systems (for example fancoils).







RFHSB/FHY/RKDSB HYGROSTATS/HYGROTHERMOSTATS WITH MECHNICALLY OPERATED SENSORS

Model	List £	Switching Voltage	Setting Ranges	Replaced which model?	Equipment
RFHSB-060.10	£59.55	24250V~	30100% r.h	PHY 60.010	External setting
RFHSB-060.11	£61.19	24250V~	30100% r.h	PHY 60.011	Internal setting
FHY 101.060 #21	£71.18	24250V~	35…85% r.h	N/A	External setting for flush installation
RKDSB-171.000	£79.54	24250V~	1035⁰C	MHT 60.300	On/off switch for both thermostat and hygrostat. External setting on thermostat.

RFHSB/FHY/RKDSB hygrostats/hygrothermostats with mechnically operated sensors for surface installation. Hygrostat serves for the supervision and control of the relative humidity in business premises, swimming pools etc. The hygrothermostat is for supervision and control of the relative humidity of the temperature combined in one device.

ACCESSORIES FOR THE RKDSB HYGROTHERMOSTAT

Model	List £	Equipment
JZ-17	£4.39	Adaptor plate for installation of the RKDSB on a UP box (including fixing screws for the installation of the RKDSB on the adaptor plate









	HI/PHY HYGROSTATS WITH MECHNICALLY OI	PERATED SENSORS
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Model	List £	Switching Voltage	Setting Ranges	Replaced which model?	Equipment
HI-1	£135.66	24250V~	30100% r.h	N/A	External setting
HI-1F	£139.75	24250V~	30…100% r.h	N/A	Internal setting
HI-2	£168.22	24250V~	30…100% r.h	N/A	External setting - 2 stages
PHY 60.082	£58.56	24V	30100% r.h	N/A	External setting - can be connected from outside

HI/PHY hygrostats with mechanically operated sensors for installation in conduits or switch cabinets. The HI is specially suited for the control or supervision of the atmospheric moisture in ventilation ducts or air conditioning conduits. PHY is especially suited for the supervision and control of the moisture content inside of switch cabinets against the influence of moisture.

ACCESSORIES FOR THE HI HYGROSTAT

Model	List £	Equipment			
JZ-20.01	£14.64	Wall suspension element for HI			
FS-HI	£8.44	Protective sleeve sensor for HI			









INDUSTRIAL TECHNOLOGY

JET ONE STAGE INDUSTRY ROOM THERMOSTATS

Model	List £	Switching Capacity	Setting Ranges	Maximum Sensor Temperature	Equipment
JET-40	£65.33	24-250V~ 150mA	035⁰C	40°C	External setting
JET-40F	£61.33	24-250V~ 150mA	035⁰C	40°C	Internal setting
JET-41	£65.33	24-250V~ 150mA	070°C	80°C	External setting
JET-41F	£61.33	24-250V~ 150mA	070°C	80°C	Internal setting
JET-110R	£76.18	24-250V~ 150mA	-35…30⁰C	35°C	External setting (with mechanical range suppression)
JET-110RF	£81.70	24-250V~ 150mA	-35…30⁰C	35ºC	Internal setting (with mechanical range suppression)
JET-120R	£76.18	24-250V~ 150mA	060°C	70ºC	External setting (with mechanical range suppression)
JET-120RF	£81.71	24-250V~ 150mA	060°C	70ºC	Internal setting (with sight glass)

JET one-stage industry room thermostats with capillary system and outdoor sensor. For control or supervision of temperatures in non-aggressive environments in the industrial sphere e.g. for systems in greenhouses, sports halls, cold stores etc. The JET-110RF is particularly suited for use as an outdoor thermostat.







Model	List £	Switching Capacity	Setting Ranges	Switching Diff. in Stage Limits	Equipment
JMT-212	£107.41	24-250V~ 150mA	–15…30⁰C	1K	External setting
JMT-212F	£113.85	24-250V~ 150mA	–15…30⁰C	1K	Internal setting
JMT-211	£107.41	24-250V~ 150mA	10…55⁰C	1К	External setting
JMT-211F	£113.85	24-250V~ 150mA	10…55⁰C	1К	Internal setting
JMT-411	£202.73	24-250V~ 150mA	1055⁰C	1K	Internal setting

JMT MULTI STAGE INDUSTRY ROOM THERMOSTATS

JMT multi stage industry room thermostats with capillary system, outdoor sensor and 2 or 4 stages. For the control of temperatures in non aggressive environments in the industrial field. 2 or 4 stages "heating or cooling" or "heating and cooling" with neutral zone.







JET INDUSTRY ROOM THERMOSTATS

Model	List £	Switching Capacity	Setting Ranges	Switching Diff. in Stage Limits	Equipment
JET-30	£84.57	24-250V~ 150mA	10…45⁰C	1K	N/A
JET-31	£82.31	24-250V~ 150mA	10…45⁰C	1K	N/A
JET-32	£82.31	24-250V~ 150mA	−10…40°C	2K	1st controller: break contact preadjusted to +5°C 2nd controller: make contact preadjusted to -5°C

JET industry room thermostats with capillary system, outdoor sensor, 2 seperated setting ranges and 2 stages. For outdoor or indoor installation in non aggressive environments. Is particularly suited as a thermostat for the control of temperatures in industrial, fair and air inflated halls for cool down protection in greenhouses. Two seperated setting ranges for "heating and cooling" or "heating or cooling". JET-32 specially preadjusted for control of gutter heating systems.







WR ONE STAGE CAPILLARY THERMOSTAT

Model	List £	Switching Capacity	Setting Ranges	Switching Diff. in Stage Limits	Equipment
WR 81.029-1	£62.96	24-250V~ 150mA	035⁰C	0.51K	Internal setting, length of capillary tube 500mm
WR 81.101-1	£71.88	24-250V~ 150mA	0…35⁰C	0.51K	Internal setting, length of capillary tube 2000mm
WR 81.009-2	£74.95	24-250V~ 150mA	0…70⁰C	12K	External setting, length of capillary tube 1500mm
WR 81.109-2	£71.88	24-250V~ 150mA	070⁰C	12K	Internal setting, length of capillary tube 1500mm

WR one stage capillary thermostat for supervision or control of temperatures in non-aggressive liquid or gasiform media. Specially suited for wall mounting. Dip sleeves or protective spirals are not included in the delivery. See pages 95 and 96 for sleeves and sensors including SW-200, TH and NTH.







Model	List £	Switching Capacity	Setting Ranges	Switching Diff. Adjustable	Sensor Dimensions			
JET-110X	£83.96	24-250V~ 150mA	-35…30⁰C	220K (TR)	9.6 x 122mm			
JET-110XF	£89.50	24-250V~ 150mA	-35…30⁰C	220K (TW)	9.6 x 122mm			
JET-110XFG	£92.87	24-250V~ 150mA	-3530°C	220K (TW)	9.6 x 122mm			
JET-112X	£83.95	24-250V~ 150mA	-35…30⁰C	TB*	9.6 x 122mm			
JET-112XF	£89.49	24-250V~ 150mA	-35…30⁰C	TB*	9.6 x 122mm			
JET-120X	£83.96	24-250V~ 150mA	0…60°C	220K (TR)	9.6 x 122mm			
JET-120XG	£92.87	24-250V~ 150mA	0…60°C	220K (TR)	9.6 x 122mm			
JET-120XF	£89.49	24-250V~ 150mA	0…60°C	220K (TW)	9.6 x 122mm			
JET-130X	£83.95	24-250V~ 150mA	40…100⁰C	220K (TR)	9.6 x 122mm			
JET-130XG	£92.87	24-250V~ 150mA	40…100⁰C	220K (TR)	9.6 x 122mm			
JET-130XF	£89.49	24-250V~ 150mA	40…100⁰C	220K (TW)	9.6 x 122mm			
JET-133XF	£91.12	24-250V~ 150mA	40…100⁰C	TB**	9.6 x 122mm			
JET-140X	£83.95	24-250V~ 150mA	70…130⁰C	220K (TR)	9.6 x 122mm			
JET-140XF	£89.49	24-250V~ 150mA	70…130⁰C	220K (TW)	9.6 x 122mm			
JET-143XF	£91.12	24-250V~ 150mA	70…130⁰C	TB**	9.6 x 122mm			
JET-150	£89.89	24-250V~ 150mA	100…280⁰C	850K (TR)	6 x 80mm			
JET-150F	£95.53	24-250V~ 150mA	100…280⁰C	850K (TW)	6 x 80mm			
JET-153	£93.27	24-250V~ 150mA	100…280⁰C	TB**	6 x 80mm			
JET-153F	£98.81	24-250V~ 150mA	100…280⁰C	TB**	6 x 80mm			
F= internal setting, G= device with 4.5m long capillary, X= types for TH/NTH-140								
TR= temperature controller								
TW= temperature monitor								
TB= temperature limiter								
* Locks at falling temperatures. Manual reset after a temperature increase of min. 8K								
**Locks at rising temperatures. Manual reset after a temperature decrease of min. 8K								

JET one-stage capillary thermostats. For control or supervision of temperatures in non-aggressive liquid or gasiform media. Specially suited for wall mounting. Dip sleeves and protective spirals are not included. See pages 95 and 96 for these including SW-200-12, TH and NTH.







JMT MULTI STAGE THERMOSTATS

Model	List £	Switching Capacity	Setting Ranges	Switching Diff. in Stage Limits	Sensor Dimensions		
JMT-202X	£124.91	24-250V~	–15…30⁰C	1К	9.6 x 122mm		
JMT-203X	£124.91	24-250V~	10…55⁰C	1К	9.6 x 122mm		
JMT-203XF	£130.03	24-250V~	10…55⁰C	1К	9.6 x 122mm		
JMT-221X	£142.52	24-250V~	10…55⁰C	ЗК	9.6 x 122mm		
JMT-204	£124.91	24-250V~	50…120⁰C	1K	8 x 78mm		
F= internal setting							

JMT multi stage thermostats with 2 stages. For the multistage control of temperatures in liquid or gasiform media e.g. for the triggering of two-stage burners or coil heating systems. Dip sleeves and protective spirals are not included in the delivery. See pages 95 and 96 for these, including SW-200-12, TH and NTH.







Model	List £	Switching Capacity	Setting Ranges	Switching Diff. (approx.)	Equipment			
LR 80.003-1	£57.13	24-250V~ 150mA	035°C	1К	External setting/TR			
LR 80.108-1	£57.13	24-250V~ 150mA	035⁰C	1K	Internal setting/TW			
LR 80.109-1	£59.08	24-250V~ 150mA	035⁰C	1K	Internal setting/TW			
LR 80.027-5	£59.08	24-250V~ 150mA	0…70⁰C	5K	External setting/TR			
LR 80.035-2	£57.13	24-250V~ 150mA	0…70⁰C	2K	External setting/TR			
LR 80.028-2	£59.08	24-250V~ 150mA	0…70⁰C	2K	External setting/TR			
LR 80.116-2	£57.13	24-250V~ 150mA	0…70⁰C	2K	Internal setting/TW			
LR 80.029-2	£60.00	24-250V~ 150mA	0…70⁰C	2K	External setting/TR			
LR 80.120-1	£59.08	24-250V~ 150mA	10…45⁰C	1К	Internal setting/TW			
LR 80.207	£57.13	24-250V~ 150mA	6095°	_	Internal setting/external reset/TB			
LR 80.203	£59.08	24-250V~ 150mA	95…130⁰C	_	Internal setting/external reset/TB			
	TR= temperature controller TW= temperature monitor TB= temperature limiter (manual reset after cooling down by min. 8K)							

LR ROD THERMOSTAT FOR USE AS VENTILATION CONTROL

LR rod thermostat for use as ventilation control with capillary system. Specially suited for supply air monitoring purposes in the ventilation engineering field. Protective spiral is included in the delivery. See page 95 for SWK spare spirals.







Model	List £	Switching Capacity	Setting Ranges	Switching Diff. (approx.)	Equipment
KR 80.003-1	£57.13	24-250V~ 150mA	035⁰C	1K	External setting/TR
KR 80.108-1	£57.13	24-250V~ 150mA	035⁰C	1K	Internal setting/TW
KR 80.109-1	£59.08	24-250V~ 150mA	035⁰C	1K	Internal setting/TW
KR 80.027-5	£59.08	24-250V~ 150mA	070°C	5K	External setting/TR
KR 80.035-2	£57.13	24-250V~ 150mA	070°C	2K	External setting/TR
KR 80.028-2	£59.08	24-250V~ 150mA	070°C	2K	External setting/TR
KR 80.116-2	£57.13	24-250V~ 150mA	070°C	2K	Internal setting/TW
KR 80.029-2	£60.00	24-250V~ 150mA	070°C	2K	External setting/TR
KR 80.111-3	£57.13	24-250V~ 150mA	080°C	3K	Internal setting/TW
KR 80.009-1	£78.63	24-250V~ 150mA	1045°C	1K	External setting/TR
KR 80.011-1	£77.40	24-250V~ 150mA	1045°C	1K	External setting/TR
KR 80.120-1	£59.08	24-250V~ 150mA	1045°C	1K	Internal setting/TW
KR 80.206	£57.13	24-250V~ 150mA	30…65⁰C	-	Internal setting/external reset/TB
KR 80.000-5	£57.13	24-250V~ 150mA	35…95⁰C	5K	External setting/TR
KR 80.001-5	£59.08	24-250V~ 150mA	35…95⁰C	5K	External setting/TR
KR 80.100-5	£57.13	24-250V~ 150mA	35…95⁰C	5K	Internal setting/TW
KR 80.101-5	£59.08	24-250V~ 150mA	35…95⁰C	5K	Internal setting/TW
KR 80.124-5	£60.00	24-250V~ 150mA	35…95⁰C	5K	Internal setting/TW
KR 80.112-5	£70.54	24-250V~ 150mA	35…95⁰C	5K	Internal setting/TW
KR 80.102-8	£57.13	24-250V~ 150mA	40…110⁰C	8K	Internal setting/TW
KR 80.103-8	£59.08	24-250V~ 150mA	40…110⁰C	8K	Internal setting/TW
KR 80.008-8	£57.13	24-250V~ 150mA	40…110⁰C	8K	External setting/TR
KR 80.006-8	£57.13	24-250V~ 150mA	50130°C	8K	Internal setting/TW
KR 80.106-8	£57.13	24-250V~ 150mA	50130°C	8K	Internal setting/TW
KR 80.207	£57.13	24-250V~ 150mA	6095°C	-	Internal setting/external reset/TB
KR 80.208	£57.13	24-250V~ 150mA	85120°C	-	Internal setting/external reset/TB
KR 80.202	£57.13	24-250V~ 150mA	95…130⁰C	_	Internal setting/external reset/TB
KR 80.203	£59.08	24-250V~ 150mA	95…130⁰C	_	Internal setting/external reset/TB
			TW= tempe	ature controller erature monitor	
		TB= tempe	erature limiter (manual	reset after cooling dowr	n by min. 8K)

KR rod thermostat for use as boiler controller with capillary system. Specially suited for applications in the heating technology sphere or for use in heating reservoirs, district heating transfer stations or heat transfer installations. The dip sleeve is included in the delivery.







Model	List £	Switching Capacity	Switch Off Temperature	Max. Sensor Temperature	Length of Dip Sleeve/Protective Spiral
KR 80.309	£61.74	24-250V~ 150mA	75ºC +0/-8K	115ºC	100mm
KR 80.310	£63.99	24-250V~ 150mA	75ºC +0/-8K	115ºC	200mm
KR 80.312	£61.74	24-250V~ 150mA	100ºC +0/-9K	135°C	100mm
KR 80.318	£63.99	24-250V~ 150mA	100ºC +0/-9K	135°C	200mm
LR 80.309	£61.74	24-250V~ 150mA	75ºC +0/-8K	115ºC	100mm
LR 80.310	£63.99	24-250V~ 150mA	75ºC +0/-8K	115ºC	200mm
LR 80.312	£61.74	24-250V~ 150mA	100ºC +0/-9K	135°C	100mm
LR 80.318	£63.99	24-250V~ 150mA	100°C +0/-9K	135⁰C	200mm

KR/LR ROD THERMOSTAT FOR USE AS SAFETY TEMPERATURE LIMITER







Model	List £	Switching Capacity	Control Range Switch off Temp.	Switching Difference	Equipment	
KR 85.406-2	£75.26	24-250V~ 150mA	0…70⁰C	2K	Internal setting/TW	
NN 05.400-2	275.20	24-230V~ 130IIIA	070°C	2K	Internal setting/TW	
KR 85.109-2	£78.94	24-250V~ 150mA	070°C	2K	External setting/TR	
KK 05.109-2	270.34	24-230V~ 130MA	070°C	2K	Internal setting/TW	
KR 85.100-5	£78.94	24-250V~ 150mA	35…95⁰C	3-5K fixed	External setting/TR	
NN 05.100-5	270.34	24-230V~ 130IIIA	35…95⁰C	3-5K fixed	Internal setting/TW	
KR 85.101-5	£82.52	24-250)/150m	35…95⁰C	3-5K fixed	External setting/TR	
KIX 05.101-5	LOZ.JZ	24-250V~ 150mA	35…95⁰C	3-5K fixed	Internal setting/TW	
KR 85.400-5	£75.26	5.26 24-250V~ 150mA	35…95⁰C	3-5K fixed	Internal setting/TW	
NN 05.400-5	£75.26		35…95⁰C	3-5K fixed	Internal setting/TW	
KR 85.401-5	£82.52	24-250V~ 150mA	35…95⁰C	3-5K fixed	Internal setting/TW	
NN 05.401-5	LOZ.JZ	24-230V~ 130IIIA	35…95⁰C	3-5K fixed	Internal setting/TW	
KR 85.102-5	678.04	R 85.102-5 £78.94	24-250V~ 150mA	35…95⁰C	3-5K fixed	External setting/TR
NN 05.102-5	270.34	24-230V~ 130IIIA	50130°C	8K	Internal setting/TW	
KR 85.207-5	207-5 £90.81	24-250V~ 150mA	35…95⁰C	3-5K fixed	External setting/TR	
NN 05.207-5	230.01	24-230V~ 130IIIA	85120°C	3-Sit lixed	External reset/TB	
KR 85.230-5	£86.21	24-250V~ 150mA	35…95⁰C	3-5K fixed	External setting/TR	
NN 05.250-5	200.21	24-230V~ 130IIIA	95…110⁰C	3-3K likeu	Internal reset/TB	
KR 85.204-8	£89.49	24-250V~ 150mA	50…130⁰C	6-8K fixed	External setting/TR	
NR 03.204-0	209.49	24-250V~ 150MA	95…130⁰C		External reset/TB	
				erature controller erature monitor		
		TB= temp	•	I reset after cooling down	by min. 8K)	

KR ROD THERMOSTAT FOR USE AS BOILER DOUBLE CONTROLLER

KR rod thermostat for use as boiler double controller with capillary system. Specially suited for use in the heating technology sphere in boiler systems or heat reservoir installations. The dip sleeve is included in the delivery. See page 95 for spare dip sleeves including THK and NTHK.







Model	List £	Switching Capacity	Control Range	Switching Difference	Equipment			
		e mening capacity	Switch off Temp.	ownoning Direction	-4			
KR 85.311-2	£88.67	24-250V~ 150mA	070°C	2K -	External setting/TR			
NIX 05.511-2	200.07	24-230V~ 130MA	75°C +0/-8K	21	Internal reset/STB			
KR 85.312-2	£90.71	24-250V~ 150mA	070°C	2K -	External setting/TR			
NN 05.512-2	230.71	24-250 v ~ 150111A	75°C +0/-8K	21	Internal reset/STB			
KR 85.314-5	KR 85.314-5 £88.67	24-250V~ 150mA	35…90⁰C	5K	External setting/TR			
KK 05.514-5	200.07	24-230V~ 130MA	100°C +0/-9K		Internal reset/STB			
KR 85.315-5	£90.71	24-250V~ 150mA	3590°C	5K -	External setting/TR			
KK 05.515-5	230.71	24-230V~ 130MA	100°C +0/-9K		Internal reset/STB			
LR 85.315-5	LR 85.315-5 £90.71	24-250V~ 150mA	35…90⁰C	5K	External setting/TR			
LIX 05.515-5	LK 85.515-5 290.71 24-250 V~ 150 IIA 100°C +0/-9K Internal reset/STB							
	TR= temperature controller							
	STB= safety temperature limiter							

KR/LR ROD THERMOSTAT FOR USE AS BOILER CONTROLLER/SAFETY TEMPERATURE LIMITER

KR/LR rod thermostat for use as boiler controller/safety temperature limiter with capillary system. For the limitation of temperatures in boiler, heat reservoir and ventilating systems. The dip sleeve or protective spiral is included in the delivery. See page 95 for spare dip sleeves including THK and SWK-200.







JTU DUCT THERMOSTAT

Model	List £	Switching Capacity	Setting Ranges	Switching Difference	Equipment/Type				
JTU-50	£59.59	24-250V~ 150mA	–25…65⁰C	1.5K	TW				
JTU-1	£66.96	24-250V~ 150mA	20…100⁰C	830K, adjustable	Intrinsic safety/cold protection TW				
JTU-2	£62.66	24-250V~ 150mA	20…100⁰C	External manual reset	Intrinsic safety/cold protection STB				
JTU-3	£62.66	24-250V~ 150mA	20…100⁰C	External manual reset	Intrinsic safety/cold and overheat protection STB				
JTU-20	£63.78	24-250V~ 150mA	20…100⁰C	External manual reset	Intrinsic safety/cold protection STB				
JTU-5	£67.58	24-250V~ 150mA	60…140⁰C	830K, adjustable	TW				
JTU-6	JTU-6 £67.58 24-250V~ 150mA 60140°C External manual reset TB								
	TW= temperature monitor STB= safety temperature limiter TB= temperature limiter								

JTU duct thermostat with capillary system. Specially suited as minimum or maximum value thermostat for supply air control purposes or for the control of fans in ventilating and air conditioning systems. Also suited as overheat protection thermostat for application with electrical coil heating systems and direct fired oil or gas air heaters.







JTL AIR HEATER THERMOSTAT

Model	List £	Switching Capacity	Switching Diff. Fan (adjustable)	Switching Difference Burner	Equipment/Type			
JTL-2	£78.63	24-250V~ 150mA	830K	8K	Intrinsic safety/cold protection TW			
JTL-4	£83.27	24-250V~ 150mA	830K	External manual reset	Intrinsic safety/cold protection STB			
JTL-8	£82.94	24-250V~ 150mA	830K	External manual reset	Intrinsic safety/cold and overheat protection STB			
JTL-11	£84.57	24-250V~ 150mA	830K	8K	Intrinsic safety/cold protection TW			
JTL-4NR	£133.20	24-250V~ 150mA	830K	8K	Intrinsic safety/cold protection TW/STB			
JTL-8NR	£138.01	24-250V~ 150mA	830K	8K	Intrinsic safety/cold and overheat protection TW/STB			
JTL-17NR	£141.70	24-250V~ 150mA	830K	8K	Intrinsic safety/cold and overheat protection TW/STB			
	TW= thermostat STB= safety temperature limiter							

JTL air heater thermostat with capillary system and 2 or 3 functions. For use as a minimum or maximum value thermostat for supply air control purposes or for the control of fans in ventilating and air conditioning systems. Also suited as overheat protection thermostat for application with electrical coil heating systems and direct fired oil or gas air heaters.







ATR/JAT/WR CLIP ON THERMOSTATS

Model	List £	Switching Capacity	Control Range	Max. Sensor Temperature	Equipment/Type
ATR 83.000	£21.70	24-250V~ 150mA	30…90⁰C	100ºC	External setting/TR
ATR 83.100	£21.70	24-250V~ 150mA	30…90⁰C	100°C	Internal setting/TW
ATR 83.001	£21.70	24-250V~ 150mA	060°C	80ºC	External setting/TR
ATR 83.101	£21.70	24-250V~ 150mA	060°C	80ºC	Internal setting/TW
WR 81.115-5	£77.92	24-250V~ 150mA	070⁰C	85ºC	Internal setting/TW
WR 81.117-5	£77.92	24-250V~ 150mA	50…130⁰C	150°C	Internal setting/TW
JAT-110F	£79.04	24-250V~ 150mA	-35…35⁰C	End scale value +15°C	Internal setting/TW
JAT-120F	£79.04	24-250V~ 150mA	060°C	End scale value +15°C	Internal setting/TW
JAT-130F	£79.04	24-250V~ 150mA	40…100⁰C	End scale value +15°C	Internal setting/TW
				thermostat temperature limiter	

ATR/JAT/WR clip on thermostats with capillary system. Specially suited for the control or supervision of temperatures at coil heating systems, pipelines, containers or reservoirs to enable the temperature-dependent driving and control of pumps or the actuation of motor valves.

ACCESSORIES FOR THE ATR CLIP ON THERMOSTAT

Model	List £	Equipment
ATRS-1	£1.33	Temperature fixing set for ATR 83.000/ATR83.001







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Model	List £	Switching Difference	Control Range	Length of capillary	Equipment					
	ONE-STAGE									
JTF-1	£69.42	24-250V~ 150mA	–10…55⁰C	6.0m	-					
JTF-1/12	£124.91	24-250V~ 150mA	–10…55⁰C	12.0m	_					
JTF-1W	£96.45	24-250V~ 150mA	–10…55⁰C	6.0m	IP65					
JTF-2	£74.95	24-250V~ 150mA	–10…55⁰C	6.0m	External manual reset					
JTF-2/12	£134.94	24-250V~ 150mA	–10…55⁰C	12.0m	External manual reset					
JTF-3	£70.34	24-250V~ 150mA	–10…55⁰C	1.8m	Also for use on the water side					
JTF-3 W	£96.45	24-250V~ 150mA	–10…55⁰C	1.8m	IP65, also for use on the water side					
JTF-4	£72.08	24-250V~ 150mA	–10…55⁰C	1.8m	External manual reset, also for use on the water side					
JTF-5	£67.16	24-250V~ 150mA	–10…55⁰C	3.0m	_					
JTF-6	£78.94	24-250V~ 150mA	–10…55⁰C	3.0m	External manual reset					
		TWO-STAGE (1st stag	ge emits a signal at !	5K before the attaining	of the switch off point)					
JTF-21	£98.60	24-250V~ 150mA	–10…55⁰C	6.0m	-					
JTF-21/12	£177.44	24-250V~ 150mA	–10…55⁰C	12.0m	-					
JTF-21W	£125.83	24-250V~ 150mA	–10…55⁰C	6.0m	IP65					
JTF-22	£105.25	24-250V~ 150mA	–10…55⁰C	6.0m	External manual reset					
JTF-22/12	£189.41	24-250V~ 150mA	–10…55⁰C	12.0m	External manual reset					
JTF-25	£96.45	24-250V~ 150mA	–10…55⁰C	6.0m	-					

JTF frost protection thermostat with capillary system and one or two stages. Especially suited to ensure the protection of hot water coil heating systems against freezing. The models JTF-21 to JTF-25 are equipped with two switching outputs that provide the option to act on the system already in advance of the attaining of the corresponding danger point. The installation clips, dip sleeves and protective spirals are not included in the delivery. See pages 95 and 96 for these, including SW-200-12, TH-140 and NTH-140.







JTF FROST PROTECTION THERMOSTAT - NEW

Model	List £	Switching Capacity	Measuring Range	Continuous and Switching	Equipment
JTF-31	£308.19	Max 30V~/120V	015⁰C	6.0m	0-10V output and changeover contact
JTF-35	£260.89	Max 30V~/120V	015⁰C	3.0m	0-10V output and changeover contact

JTF frost protection thermostat which is continuous and switching. For the supervision and protection of hot water coil heating systems or heat exchangers installed in ventilation. Also suited for the measuring of temperatures in non-aggressive types of gas. The installation clips are not included in the delivery. The bracing of the capillary tubes can be done by means of installation clips JZ-05/6M (metal) or JZ-05/06K (plastic). See page 98 for these.

ACCESSORIES FOR THE JTF FROST PROTECTION THERMOSTAT

Model	List £	Equipment
JTF-H	£18.06	Heating resistor





PTR WET ROOM TEMPERATURE THERMOSTAT/DOUBLE THERMOSTAT

Model	List £	Switching Capacity	Control Range	Switching Difference	Equipment
PTR 40.000	£56.51	250V~,50/60Hz	-2030⁰C	2К	Changeover contact, thermal recirculation
PTR 45.000	£65.28	250V~,50/60Hz	-2030⁰C	2K	Changeover contact, thermal recirculation (1st controller)
F TR 43.000	203.20	2300~,30/00112	-2030°C	21	Changeover contact, thermal recirculation (2nd controller)

PTR wet room temperature thermostat/double thermostat (bimetal). For the control and supervision of temperatures prevailing at certain open spaces such as driveways or wet rooms (greenhouses, halls, warehouses, basements, garages etc.) and for the control of gutter heating systems.







ETR TEMPERATURE DIFFERENCE THERMOSTAT

Model	List £	Operating Voltage	Control Range	Δt	Switching Difference	Sensor
ETR 78.005	£105.46	250V~,50/60Hz	35…95⁰C	120K	0.12K	5/25 (NTC 50 K)
ETR 78.006	£105.46	250V~,50/60Hz	060°C	120K	0.12K	3/23 (NTC 8 K)

ETR temperature difference thermostat with remote sensor. For the acquisition of temperature differentials between two independent NTC sensors. Mainly suited for use with solar heating systems for the triggering of the circulating pump. Sensors are not included in the delivery. See pages 57 onwards for the sensor number indicated (i.e all no 5/25 sensor types can be used). Two sensors need to be ordered per device.







ITR COMPACT THERMOSTAT FOR INSTALLATION IN SWITCH CABINETS (ON DIN RAIL)

Model	List £	Operating Voltage	Control Range	Sensor	Equipment
ITR79.402	£64.63	250V~, 50/60Hz	-35…15⁰C	1/21 (NTC 1 K)	Heating, red LED
ITR79.404	£64.63	250V~, 50/60Hz	060°C	4/24 (NTC 10 K)	Heating, red LED
ITR79.405	£64.63	250V~, 50/60Hz	35…95⁰C	5/25 (NTC 50 K)	Heating, red LED
ITR79.406	£67.90	250V~, 50/60Hz	70…130⁰C	6 (NTC 100 K)	Heating, red LED
ITR79.408	£67.90	250V~, 50/60Hz	−10…40ºC	3/23 (NTC 8 K)	Heating, red LED
ITR79.503	£67.90	250V~, 50/60Hz	011⁰C	0/20 (NTC 2 K 25)	Frost protection, manual reset, fixed red LED, switching difference 1.5k
ITR79.504	£67.90	250V~, 50/60Hz	060°C	4/24 (NTC 10 K)	Cooling, green LED
ITR79.508	£67.90	250V~, 50/60Hz	−1040°C	3/23 (NTC 8 K)	Cooling, green LED
		TWO REFERENCE SE	TTERS (FOR DAY/NI	GHT TEMP. CONTROL	VIA EXTERNAL CLOCK)
ITR79.600	£75.77	250V~, 50/60Hz	2 x 530°C	2 (NTC 47 K)	Heating, switching difference 0.5k fixed
ITR79.608	£94.61	250V~, 50/60Hz	2 x -1040°C	8 (NTC 2 K)	Heating, switching difference 0.5k fixed, incl. sensor HF-8/4-K2 (4m)
	FOR REMOTE SENSOR		R TRIGGERED CONT	ROL OF ELECTRIC FL	OOR HEATING SYSTEMS
ITR79.804	£86.66	250V~, 50/60Hz	060°C	8 (NTC 2 K)	Heating, red LED, incl. sensor HF-8/4-K2 (4m)
ITR79.805	£86.66	250V~, 50/60Hz	35…95⁰C	8 (NTC 2 K)	Heating, red LED, incl. sensor HF-8/4-K2 (4m)

ITR compact thermostat for installation in switch cabinets (on DIN rail) with remote sensor. For control and supervision of temperatures in halls, greenhouses and of temperatures developed by floor heating systems. Sensors are not included, except ITR79.804, 79.805 and 79.608. See pages 57 onwards for sensors available according to sensor number (i.e all no. 24 or 4 sensor types can be used).







ETR UNIVERSAL THERMOSTAT

Model	List £	Operating Voltage	Control Range	Sensor	Switching Difference	Equipment		
ETR77.008-5	£71.84	250V~, 50/60Hz	-50…50⁰C	51 (PTC 1 K)	0.55K	Internal setting		
ETR77.108-5	£74.84	250V~, 50/60Hz	–50…50⁰C	51 (PTC 1 K)	0.55K	External setting		
ETR77.009-5	£71.84	250V~, 50/60Hz	0100⁰C	51 (PTC 1 K)	0.55K	Internal setting		
ETR77.109-5	£71.84	250V~, 50/60Hz	0100⁰C	51 (PTC 1 K)	0.55K	External setting		
ETR77.109-15	£73.64	250V~, 50/60Hz	0100⁰C	51 (PTC 1 K)	515K	External setting		
	FOR REMOTE SENSOR TRIGGERED CONTROL OF FLOOR HEATING SYSTEMS							
ETR77.804-5	£91.49	250V~, 50/60Hz	060⁰C	Internal setting including sensor HF-8/4-K2 (4m) (NTC 2 K).				

ETR universal thermostat with remote sensor. Due to different sensor designs it is universally applicable for different tasks in the heating, ventilation, air conditioning and refrigerating technology field. A red LED indicates the heating condition. Sensors are not included (except ETR77.804-5). See pages 57 onwards for sensors available according to the sensor number (i.e all no. 51 sensors can be used).







ETR UNIVERSAL THERMOSTAT

Model	List £	Operating Voltage	Control Range	Sensor	Switching Difference	Equipment
ETR74.1	£233.22	250V~, 50/60Hz	050°C	57 (PTC 2 K)	0.25K adjustable	Internal setting one stage outlet
ETR74.2	£245.26	250V~, 50/60Hz	050°C	57 (PTC 2 K)	0.25K within stages, 15K adjustable between stages	Internal setting two stage outlet

ETR universal thermostat with remote sensor and digital indicator (one or two stage type). For control and/or supervision of the temperatures of gasiform or liquid media types with digital actual value indication. Suited for surface installation in humid rooms. Sensors are not included. Please see pages 57 onwards for sensors available according to sensor number (i.e all no. 57 sensors can be used).







JBT ELECTRONIC TWO-STAGE CONTROLLER

Model	List £	Operating Voltage	Control Range	Sensor	Equipment
JBT-21A	£122.86	250V~, 50/60Hz	–15…25⁰C	0/20 (NTC 2 K 25)	-
JBT-21ACP	£122.86	250V~, 50/60Hz	–50…25⁰C	0/20 (NTC 2 K 25)	Without housing inc. 1m remote potentiometer and DIN rail
JBT-22A	£122.86	250V~, 50/60Hz	10…50⁰C	3/32 (NTC 8 K)	_
JBT-22ACP	£122.86	250V~, 50/60Hz	10…50⁰C	3/23 (NTC 8 K)	Without housing inc. 1m remote potentiometer and DIN rail
JBT-23A	£122.86	250V~, 50/60Hz	35…95⁰C	5/25 (NTC 50 K)	_

JBT electronic two stage controller with remote sensor. Two stages for heating or cooling. Sensors are not included (except ETR77.804-5). See pages 69 onwards for sensors available according to the sensor number (i.e all H, F, RF and LF types can be used).





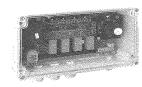


JBT 4, 6 AND 8 STAGE CONTROLLERS

Model	List £	Operating Voltage	Control Range	Sensor	Equipment
JBT-420B	£198.84	250V~, 50/60Hz	–10…50⁰C	3/23 (NTC 8 K)	_
JBT-420BC	£179.08	250V~, 50/60Hz	−10…50ºC	3/23 (NTC 8 K)	Without housing
JBT-420BP	£198.84	250V~, 50/60Hz	−10…50ºC	3/23 (NTC 8 K)	Without housing incl. 1m remote potentiometer and DIN rail
JBT-420BPS	£211.73	250V~, 50/60Hz	–10…50⁰C	3/23 (NTC 8 K)	Like 420BP, but with adjustable starting delay (2-200s)
JBT-420BS	£222.28	250V~, 50/60Hz	–10…50⁰C	3/23 (NTC 8 K)	Adjustable starting delay 2-200s
JBT-420BCS	£210.50	250V~, 50/60Hz	−10…50ºC	3/23 (NTC 8 K)	Without housing but with adjustable starting delay (2-200s)
JBT-61AS	£300.61	250V~, 50/60Hz	–15…30⁰C	0/20 (NTC 2 K 25)	Without housing but with adjustable starting delay (2-200s)
JBT-81AS	£429.72	250V~, 50/60Hz	−1530ºC	0/20 (NTC 2 K 25)	Without housing but with adjustable starting delay (2-200s)

JBT 4, 6 and 8 stage controllers with remote sensor. JBT-4 includes 4 stage "heating or cooling". JBT-6/8 includes 6 or 8 stages "heating or cooling". LED switch for mode indication. Sensors are not included. See pages 69 onwards for sensors available according to sensor number (i.e all HF, RF or LF sensor types can be used).







JDI DIGITAL TEMPERATURE INDICATOR

Model	List £	Operating Voltage	Indication Range	Sensor	Equipment
JDI-0	£101.73	230V~, 50/60Hz	-40…120⁰C	51 (PTC 1 K)	3 digit indication without decimal
JDI-08	£132.69	230V~, 50/60Hz	-40…120⁰C	51 (PTC 1 K)	3 digit indication without decimal, max. 8 measuring points can be inquired by means of a rotary switch

JDI digital temperature indicator with DIN built in housing. Can be used as a thermometer if applied in combination with a remote sensor. Sensors are not included. See pages 57 onwards for sensors available according to sensor number (i.e all no. 51 sensor types can be used).







ITR/JDI DIGITAL THERMOSTAT

Model	List £	Operating Voltage	Control Range	Sensor	Indication
ITR71.050	£140.06	250V~, 50/60Hz	-40…50⁰C	51 (PTC 1 K)	3 digit without decimal
ITR71.100	£140.06	250V~, 50/60Hz	0100⁰C	51 (PTC 1 K)	3 digit without decimal
ITR71.125	£140.06	250V~, 50/60Hz	40…125⁰C	51 (PTC 1 K)	3 digit without decimal
JDI-1	£101.73	250V~, 50/60Hz	-40…120⁰C	51 (PTC 1 K)	3 digit without decimal
JDI-10	£142.28	250V~, 50/60Hz	-40…120⁰C	51 (PTC 1 K)	4 digit with decimal

ITR/JDI digital thermostat with temperature adjustment via "turning knob" or "potentiometer" and DIN built in housing. For control or supervision of temperatures existing in fluid or gasiform media. Sensors are not included. See pages 57 onwards for sensors available according to sensor number (i.e all no. 51 sensor types can be used).







JDI MICROPROCESSOR CONTROLLER - NEW

Model	List £	Operating Voltage	Control Range	Replaced which model?	Sensor	Control Function
JDI-22	£265.77	230V~, 50/60Hz	-50…200⁰C	JDI-21	PT 100 2/3 conductor	2/3 point controller with serial interface
JDU-210	£273.07	230V~, 50/60Hz	−200…850°C	JDI-210, JDR-10, JDR- 210	PT 100 3 conductor & PT 1000 2 conductor	2/3 point controller with serial interface and 2 point controller with alarm

JDI microprocessor controller for PT-100/PT-1000 sensors and measuring transducer and DIN built in housing. 2/3 point controller for control and/or supervision of temperatures existing in liquid or gasiform media with decimal display. Sensors and measuring transducers are not included. See pages 57 onwards for sensors and transducers available according to number. (i.e all no 51 sensors can be used).







JDS 3 POINT CONTROL INPUT CONTROLLER FOR USE WITH MOTOR DRIVEN ACTUATORS

Model	List £	Operating Voltage	Control Range	Sensor	Power Consumption
JDS-210	£344.02	230V~, 50/60Hz	–199.9…650⁰C	PT 100	5W

JDS 3 point control input controller for use with motor driven actuators (quasicontinuous action) or PWM output with PI/PID behaviour and DIN built in housing. Controller for joint operation with PT100 sensors. Controls motor driven actuators by three way mixing valves, straight way valves or air flaps. Sensors and measuring transducers are not included. See pages 57 onwards for sensors and transducers available according to number.







JSL AIR FLOW SENSING RELAY

Model	List £	Switching Capacity	Min. Switch On Value	Min. Switch Off Value	Max. Switch On Value	Max. Switch Off Value
JSL-1E	£66.96	24-250V~	2m/s	1m/s	9.2m/s	8.0m/s

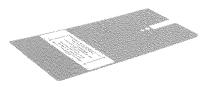
JSL air flow sensing relay which is mechanically operated. For the supervision of airflows in channels or conduits or of airflows in the supply or exhaust air components or facilities of fans or electrical heating coils. Device is provided for vertical installation.

ACCESSORIES FOR THE JTF FROST PROTECTION THERMOSTAT

Model	List £	Equipment
JZ-08	£13.72	Spare tag









JSL AIR FLOW MONITOR

Model	List £	Power Supply	Relay	Integral Sensor	Equipment			
JSL-20	£155.10	24V~	1	No	Without locking			
JSL-20/24V	£178.61	250V~	1	No	Without locking			
JSL-20K	£152.38	250V~	1	Yes	Without locking			
JSL-21*	£180.32	250V~	2	No	With locking**			
JSL-21/24V*	£215.01	24V~	2	No	With locking**			
	*without locking (on request) **device to be disconnected and made voltage free for resetting							

JSL air flow monitor with electronic controller. For the flow-dependent supervision of fans, regulating valves of humidifiers and electric coil heating systems. The sensor cable can be extended up to 100m length.







Model	List £	Switching Capacity	Setting Range	Switching Difference	Maximum Pressure			
JDW-3	£40.55	12-250V~	20330Pa	820Pa	5000Pa			
JDW-5	£40.55	12-250V~	30500Pa	1025Pa	5000Pa			
JDW-10	£40.55	12-250V~	4001.600Pa	3060Pa	5000Pa			
JDL-109	£37.59	12-250V~	20Pa (ex factory)	10Pa	15000Pa			
JDL-111	£45.46	12-250V~	20300Pa	1015Pa	15000Pa			
JDL-112	£44.47	12-250V~	40600Pa	2233Pa	30000Pa			
JDL-113	£38.46	12-250V~	40Pa (ex factory)	15Pa	5000Pa			
JDL-115	£44.47	12-250V~	1001000Pa	2040Pa	30000Pa			
JDL-116	£44.47	12-250V~	250…5000Pa	60150Pa	30000Pa			
JDL-116A	£50.50	12-250V~	2505000Pa	60150Pa	30000Pa			
JDL-117A	£50.50	12-250V~	300015000Pa*	250600Pa	30000Pa			
	*Indications on the adjusting knob in mbar							

JDW/JDL differential pressure switches. For the supervision of overpressure, differential pressure or negative pressure levels in airflows or non-aggressive non combustible types of gas. JDW delivered without installation on bracket. Delivery also possible with installation bracket JZ-10 in already attached condition. JDL delivered with installation bracket JZ-10 in attached condition.

ACCESSORIES FOR THE JDW/JDL DIFFERENTIAL PRESSURE SWITCHES

Model	List £	Equipment
JZ-06/1	£6.46	Connection set with 2 channel connecting pieces of plastic, 2 extentions, 4 screws, 2 m hose
JZ-10	£3.18	Installation bracket with screws for types JDL-109/113 and JDW-3/5/10







JSF FLOW MONITOR

Model	List £	Switching Capacity	Pipe	Medium	Carrier body	Max pressure	Equipment		
JSF-3E	£133.31	24-250V~	1⁄2"	Normal	Brass	5 bar	Attached T-piece (grey cast iron)		
JSF-4E	£133.31	24-250V~	³ ⁄4"	Normal	Brass	5 bar	Attached T-piece (grey cast iron)		
JSF-1E	£133.31	24-250V~	1"8"	Normal	Brass	8 bar	_		
JSF-1RE	£133.31	24-250V~	1"8"	Normal	Brass	5 bar	Reduced switching values**		
JSF-2E	£266.74	24-250V~	1"8"	*	V4A	13 bar	_		
JSF-2RE	£226.74	24-250V~	1"8"	*	V4A	5 bar	Reduced switching values**		
	*Aggressive types of media: all parts of the flow monitor in contact with the medium are made of V4A **Types for low throughput rates								

JSF flow monitor is mechnically operated. For the supervision of liquid media that flow through 1/2" up to 8" tubes or pipes such as in oil, cooling or lubricant circuits. Can also be applied as protection against the lack of water. Installed vertically.

ACCESSORIES FOR THE JSF FLOW MONITOR

Model	List £	Equipment
JZ-09	£14.02	Spare paddle (4 pieces)









JSW FLOW SWITCH

Model	List £	Switching Capacity	Tube	DN	Max.	∆ l/min	Switch point, decreasing*	Switch point, increasing	
JSW-3/8	£100.13	5A, 24-250V~	3/8"	10	10 l/min	0.5	3.55.0 l/min	4.05.5 l/min	
JSW-1/2	£100.13	5A, 24-250V~	1/2"	15	20 l/min	0.5	5.06.5 l/min	5.57.0 l/min	
JSW-3/4	£100.13	5A, 24-250V~	3/4"	20	40 l/min	2.0	7.09.5 l/min	9.011.0 l/min	
JSW-1	£100.13	5A, 24-250V~	1"	25	60 l/min	3.5	13.516.5 l/min	17.020.5 l/min	
	* The above indicated switching values apply only if the flow monitor is installed into the T-piece.								

JSF flow monitor is mechnically operated. For the supervision of liquid media that flow through ½" up to 8" tubes or pipes such as in oil, cooling or lubricant circuits. Can also be applied as protection against the lack of water. Installed vertically. Brass cap nut, r.¾", with O-ring and connecting piece for soldering into a standard copper T-piece with ½" tee included in the delivery.







SENSORS

PTF/RF ROOM TEMPERATURE SENSOR

Sensor	Model	List £	Model	List £	Model	List £
PT 100	PTFP100-0000	£21.21	PTFP100-0003	£44.29	PTFP100-0004	£50.31
PT 1000	PTFP1000-0000	£23.22	PTFP1000-0003	£46.59	PTFP1000-0004	£53.16
NI 1000	PTFN1000-0000	£22.94	PTFN1000-0003	£52.18	PTFN1000-004	£53.32
NI 1000/TK 5000	PTFN1000/TK5000-0000	£26.95	PTFN1000/TK5000-0003	£53.46	PTFN1000/TK5000-0004	£57.05
NTC 1 K 8	PTFC18-0000	£25.38	PTFC18-0003	£51.75	PTFC18-0004	£53.32
NTC 3 K	PTFC03-0000	£20.21	PTFC03-0003	£43.86	PTFC03-0004	£50.46
NTC 10 K	PTFC10-0000	£20.21	PTFC10-0003	£43.86	PTFC10-0004	£50.46
NTC 10 K Prekon	PTFC10PRE-0000	£20.21	PTFC10PRE-0003	£43.86	PTFC10PRE-0004	£50.46
NTC 20 K	PTFC20-0000	£20.21	PTFC20-0003	£43.86	PTFC20-0004	£50.46
NTC 30 K	PTFC30-0000	£20.21	PTFC30-0003	£43.86	PTFC30-0004	£50.46
NTC 50 K	PTFC50-0000	£20.21	PTFC50-0003	£44.01	PTFC50-0004	£50.46
KTY 11/6	PTFY11/6-0000	£18.93	PTFY11/6-0003	£41.72	PTFY11/6-0004	£48.30
LM 235Z	PTFLM-0000	£21.79	PTFLM0003	£45.73	PTFLM-0004	£52.74
NTC 2K25	RF-0		_		_	£21.64
NTC 47 K	RF-2		_		_	£21.64
NTC 8 K	RF-3		-		_	£21.64
NTC 10 K	RF-4		_		_	£20.21
NTC 2 K	RF-8		-		_	£21.64
PTC 1 K	RF-51		_		_	£21.64
PTC 2 K	RF-57		_		_	£21.64
NTC 8 K/PTC 1 K	RF-43		-		_	£21.64

PTF/RF room temperature sensor for surface installation with or without control elements. For measuring of temperatures, set value adjustment, presence reporting, control unit with control elements for use in living spaces or business rooms. LED, green, max. 24V~. Sensing device max. 35mA/24V~, weight 80g.







Sensor	Model	List £	Model	List £	Model	List £
PT 100	PTFP100-0009	£48.45	PTFP100-P0500	£47.31	PTFP100-P0501	£54.04
PT 1000	PTFP1000-0009	£50.89	PTFP1000-P0500	£49.74	PTFP1000-P0501	£56.19
NI 1000	PTFN1000-0009	£56.33	PTFN1000-P0500	£49.45	PTFN1000-P0501	£56.05
NI 1000/TK 5000	PTFN1000/TK5000-0009	£57.90	PTFN1000/TK5000-P0500	£54.32	PTFN1000/TK5000-P0501	£57.20
NTC 1 K 8	PTFC18-0009	£56.05	PTFC18-P0500	£50.03	PTFC18-P0501	£44.01
NTC 3 K	PTFC03-0009	£48.30	PTFC03-P0500	£46.16	PTFC03-P0501	£42.28
NTC 10 K	PTFC10-0009	£48.30	PTFC10-P0500	£46.16	PTFC10-P0501	£42.28
NTC 10 K Prekon	PTFC10PRE-0009	£48.30	PTFC10PRE-P0500	£46.16	PTFC10PRE-P0501	£42.28
NTC 20 K	PTFC20-0009	£48.30	PTFC20-P0500	£46.16	PTFC20-P0501	£42.28
NTC 30 K	PTFC30-0009	£48.30	PTFC30-P0500	£46.16	PTFC30-P0501	£42.28
NTC 50 K	PTFC50-0009	£48.30	PTFC50-P0500	£46.16	PTFC50-P0501	£42.28
KTY 11/6	PTFY11/6-0009	£46.16	PTFY11/6-P0500	£44.87	PTFY11/6-P0501	£42.28
LM 235Z	PTFLM-0009	£50.03	PTFLMP0500	£48.73	PTFLM-P0501	£53.89

PTF room temperature sensor for surface installation . For measuring of temperatures, set value adjustment, presence reporting, control unit with control elements for use in dry rooms. LED, green, max. 24V~. Potentiometer standard 5Ω, rocker switch 1A/30V~/42V=, weight 80g.







Sensor	Model	List £	Model	List £	Model	List £
PT 100	PTFP100-P0503	£67.08	PTFP100-P0504	£73.54	PTFP100-P0527	£57.20
PT 1000	PTFP1000-P0503	£69.53	PTFP1000-P0504	£75.82	PTFP1000-P0527	£60.06
NI 1000	PTFN1000-P0503	£69.10	PTFN1000-P0504	£75.68	PTFN1000-P0527	£59.77
NI 1000/TK 5000	PTFN1000/TK5000-P053	£73.39	PTFN1000/TK5000-P0504	£79.70	PTFN1000/TK5000-P0527	£62.50
NTC 1 K 8	PTFC18-P0503	£68.65	PTFC18-P0504	£73.81	PTFC18-P0527	£60.35
NTC 3 K	PTFC03-P0503	£65.79	PTFC03-P0504	£72.27	PTFC03-P0527	£59.20
NTC 10 K	PTFC10-P0503	£65.79	PTFC10-P0504	£72.68	PTFC10-P0527	£59.20
NTC 10 K Prekon	PTFC10PRE-P0503	£65.79	PTFC10PRE-P0504	£72.68	PTFC10PRE-P0527	£59.20
NTC 20 K	PTFC20-P0503	£65.79	PTFC20-P0504	£72.68	PTFC20-P0527	£59.20
NTC 30 K	PTFC30-P0503	£65.79	PTFC30-P0504	£72.68	PTFC30-P0527	£59.20
NTC 50 K	PTFC50-P0503	£65.79	PTFC50-P0504	£72.68	PTFC50-P0527	£59.20
KTY 11/6	PTFY11/6-P0503	£64.36	PTFY11/6-P0504	£69.66	PTFY11/6-P0527	£55.76
LM 235Z	PTFLM-P0503	£68.65	PTFLMP0504	£74.96	PTFLM-P0527	£60.63

PTF room temperature sensor for surface installation . For measuring of temperatures, set value adjustment, presence reporting, control unit with control elements for use in dry rooms. LED, green, max. 24V~. Potentiometer standard 5Ω, rotary switch 130mA/24V~, key button max. 35mA/24V~, weight 80g.







Sensor	Model	List £	Model List £		Model	List £
PT 100	PTFP100-0028	£54.61	PTFP100-P0528	£64.36	PTFP100-P0537	£97.61
PT 1000	PTFP1000-0028	£56.91	PTFP1000-P0528	£69.66	PTFP1000-P0537	£98.90
NI 1000	PTFN1000-0028	£56.77	PTFN1000-P0528	£66.51	PTFN1000-P0537	£99.05
NI 1000/TK 5000	PTFN1000/TK5000-0028	£58.91	PTFN1000/TK5000-P0528	£71.53	PTFN1000/TK5000-P0537	£101.20
NTC 1 K 8	PTFC18-0028	£56.19	PTFC18-P0528	£64.36	PTFC18-P0327	£98.76
NTC 3 K	PTFC03-0028	£54.47	PTFC03-P0528	£61.49	PTFC03-P0537	£97.61
NTC 10 K	PTFC10-0028	£54.47	PTFC10-P0528	£61.49	PTFC10-P0537	£97.61
NTC 10 K Prekon	PTFC10PRE-0028	£54.47	PTFC10PRE-P0528	£61.49	PTFC10PRE-P0537	£97.61
NTC 20 K	PTFC20-0028	£54.47	PTFC20-P0528	£61.49	PTFC20-P0537	£97.61
NTC 30 K	PTFC30-0028	£54.47	PTFC30-P0528	£61.49	PTFC30-P0537	£97.61
NTC 50 K	PTFC50-0028	£54.47	PTFC50-P0528	£61.49	PTFC50-P0537	£97.61
KTY 11/6	PTFY11/6-0028	£53.03	PTFY11/6-P0528	£63.22	PTFY11/6-P0537	£93.74
LM 235Z	PTFLM-0028	£56.05	PTFLMP0528	£97.61	PTFLM-P0537	£96.75

PTF room temperature sensor for surface installation. For measuring of temperatures, set value adjustment, presence reporting, control unit with control elements for use in dry rooms. LED, green and red, max. 24V~. Potentiometer standard 5Ω, rotary switch 130mA/24V~, key button max. 35mA/24V~, weight 80g.







Sensor	Model	List £	Model Lis		Model	List £
PT 100	PTFP100-P0508	£102.77	PTFP100-P0532	£114.38	PTFP100-P0520	£120.26
PT 1000	PTFP1000-P0508	£105.21	PTFP1000-P0532	£116.68	PTFP1000-P0520	£122.56
NI 1000	PTFN1000-P0508	£104.93	PTFN1000-P0532	£116.54	PTFN1000-P0520	£122.27
NI 1000/TK 5000	PTFN1000/TK5000-P0508	£108.79	PTFN1000/TK5000-P0532	£120.26	PTFN1000/TK5000-P0520	£126.14
NTC 1 K 8	PTFC18-P0508	£104.35	PTFC18-P0532	£114.10	PTFC18-P0520	£122.99
NTC 3 K	PTFC03-P0508	£101.49	PTFC03-P0532	£111.66	PTFC03-P0520	£118.68
NTC 10 K	PTFC10-P0508	£101.49	PTFC10-P0532	£111.66	PTFC10-P0520	£118.68
NTC 10 K Prekon	PTFC10PRE-P0508	£101.49	PTFC10PRE-P0532	£111.66	PTFC10PRE-P0520	£118.68
NTC 20 K	PTFC20-P0508	£101.49	PTFC20-P0532	£111.66	PTFC20-P0520	£118.68
NTC 30 K	PTFC30-P0508	£101.49	PTFC30-P0532	£111.66	PTFC30-P0520	£118.68
NTC 50 K	PTFC50-P0508	£101.49	PTFC50-P0532	£111.66	PTFC50-P0520	£118.68
KTY 11/6	PTFY11/6-P0508	£100.20	PTFY11/6-P0532	£114.38	PTFY11/6-P0520	£117.40
LM 235Z	PTFLM-P0508	£104.35	PTFLMP0532	£115.82	PTFLM-P0520	£121.41

PTF room temperature sensor for surface installation. For measuring of temperatures, set value adjustment, presence reporting, control unit with control elements for use in dry rooms. LED, green and red, max. 24V~. Potentiometer standard 5Ω, rotary switch 130mA/24V~, rocker switch 1A/30V~/42V~, key button max. 35mA/24V~, weight 80g.







Sensor	Model	List £	Model List £		Model	List £
PT 100	FUFP100-0000	£28.24	FUFP100-0001	£52.18	FUFP100-0003	£55.62
PT 1000	FUFP1000-0000	£31.68	FUFP1000-0001	£55.62	FUFP1000-0003	£59.34
NI 1000	FUFN1000-0000	£29.95	FUFN1000-0001	£54.90	FUFN1000-0003	£58.48
NI 1000/TK 5000	FUFN1000/TK5000-0000	£30.81	FUFN1000/TK5000-0001	£57.47	FUFN1000/TK5000-0003	£61.21
NTC 1 K 8	FUFC18-0000	£29.39	FUFC18-0001	£54.04	FUFC18-0003	£57.90
NTC 3 K	FUFC03-0000	£23.51	FUFC03-0001	£45.15	FUFC03-0003	£48.45
NTC 10 K	FUFC10-0000	£24.66	FUFC10-0001	£46.88	FUFC10-0003	£57.90
NTC 10 K Prekon	FUFC10PRE-0000	£23.51	FUFC10PRE-0001	£45.15	FUFC10PRE-0003	£48.45
NTC 20 K	FUFC20-0000	£23.51	FUFC20-0001	£49.31	FUFC20-0003	£48.30
NTC 30 K	FUFC30-0000	£23.08	FUFC30-0001	£46.02	FUFC30-0003	£47.44
NTC 50 K	FUFC50-0000	£22.51	FUFC50-0001 £43.43		FUFC50-0003	£46.72
KTY 11/6	FUFY11/6-0000	£24.37	FUFY11/6-0001	£46.45	FUFY11/6-0003	£49.74
LM 235Z	FUFLM-0000	£25.80	FUFLM-0001	£48.59	FUFLM-0003	£52.47

FUF room temperature sensor for flush installation with or without control elements . For measuring of temperatures, set value adjustment, presence reporting, control unit with control elements for use in living spaces and business rooms. LED, green max. 24V~,key button max. 35mA/24V~, weight 80g.







Sensor	Model	List £	Model List		Model	List £
PT 100	FUFP100-0004	£58.91	FUFP100-0027	£75.82	FUFP100-0028	£84.27
PT 1000	FUFP1000-0004	£61.49	FUFP1000-0027	£79.56	FUFP1000-0028	£87.15
NI 1000	FUFN1000-0004	£61.93	FUFN1000-0027	£81.56	FUFN1000-0028	£88.01
NI 1000/TK 5000	FUFN1000/TK5000-0004	£64.07	FUFN1000/TK5000-0027	£82.42	FUFN1000/TK5000-0028	£90.02
NTC 1 K 8	FUFC18-0004	C18-0004 £60.92 FUFC18-0027		£77.98	FUFC18-0028	£86.57
NTC 3 K	FUFC03-0004	£52.18	FUFC03-0027	£68.23 FUFC03-0028		£76.69
NTC 10 K	FUFC10-0004	£53.75	FUFC10-0027	£69.95	FUFC10-0028	£78.55
NTC 10 K Prekon	FUFC10PRE-0004	£52.18	FUFC10PRE-0027	£68.23	FUFC10PRE-0028	£76.69
NTC 20 K	FUFC20-0004	£52.04	FUFC20-0027	£68.09	FUFC20-0028	£76.54
NTC 30 K	FUFC30-0004	£51.32	FUFC30-0027	£67.23	FUFC30-0028	£75.68
NTC 50 K	FUFC50-0004	£50.60	FUFC50-0027	£66.37	FUFC50-0028	£74.82
KTY 11/6	FUFY11/6-0004	£53.32	FUFY11/6-0027	£69.53	FUFY11/6-0028	£78.12
LM 235Z	FUFLM-0004	£55.47	FUFLM-0027	£71.96	FUFLM-0028	£80.41

FUF room temperature sensor for flush installation with or without control elements . For measuring of temperatures, set value adjustment, presence reporting, control unit with control elements for use in living spaces and business rooms. LED, green max. 24V~, key button max. 35mA/24V~, rotary switch max. 130mA, 24V~, weight 80g.







Sensor	Model	List £	Model List £		Model	List £
PT 100	FUFP100-P0500	£72.24	FUFP100-P0501	£81.99	FUFP100-P0502	£89.59
PT 1000	FUFP1000-P0500	£75.68	FUFP1000-P0501	£85.28	FUFP1000-P0502	£90.31
NI 1000	FUFN1000-P0500	£77.26	FUFN1000-P0501	£88.87	FUFN1000-P0502	£92.16
NI 1000/TK 5000	FUFN1000/TK5000-P0500	£78.84	FUFN1000/TK5000-P0501	£92.88	FUFN1000/TK5000-P0502	£93.89
NTC 1 K 8	FUFC18-P0500	B-P0500 £75.12 FUFC18-P0501 £84.86		FUFC18-P0502	£87.44	
NTC 3 K	FUFC03-P0500	£63.65	FUFC03-P0501	£73.25 FUFC03-P0502		£78.70
NTC 10 K	FUFC10-P0500	£65.65	FUFC10-P0501	£75.39	FUFC10-P0502	£80.71
NTC 10 K Prekon	FUFC10PRE-P0500	£63.65	FUFC10PRE-P0501	£73.25	FUFC10PRE-P0502	£78.70
NTC 20 K	FUFC20-P0500	£63.49	FUFC20-P0501	£73.11	FUFC20-P0502	£78.55
NTC 30 K	FUFC30-P0500	£62.50	FUFC30-P0501	£72.10	FUFC30-P0502	£77.40
NTC 50 K	FUFC50-P0500	£61.49	FUFC50-P0501	£71.10	FUFC50-P0502	£76.54
KTY 11/6	FUFY11/6-P0500	£65.07	FUFY11/6-P0501	£74.82	FUFY11/6-P0502	£80.28
LM 235Z	FUFLM-P0500	£67.80	FUFLM-P0501	£77.55	FUFLM-P0502	£82.99

FUF room temperature sensor for flush installation with or without control elements . For measuring of temperatures, set value adjustment, presence reporting, control unit with control elements for use in living spaces and business rooms. LED, green and red max. 24V~, potentiometer standard 5Ω, weight 80g.







Sensor	Model	List £	Model List £		Model	List £
PT 100	FUFP100-P0503	£83.71	FUFP100-P0504	£108.52	FUFP100-P0509	£100.91
PT 1000	FUFP1000-P0503	£91.30	FUFP1000-P0504	£112.38	FUFP1000-P0509	£107.80
NI 1000	FUFN1000-P0503	£87.72	FUFN1000-P0504	£114.38	FUFN1000-P0509	£105.36
NI 1000/TK 5000	FUFN1000/TK5000-P0503	£90.31	FUFN1000/TK5000-P0504	£116.11	FUFN1000/TK5000-P0509	£108.52
NTC 1 K 8	FUFC18-P0503	£86.43	FUFC18-P0504	£111.66	FUFC18-P0509	£103.78
NTC 3 K	FUFC03-P0503	£75.12	FUFC03-P0504	£98.47	FUFC03-P0509	£90.74
NTC 10 K	FUFC10-P0503	£77.12	FUFC10-P0504	£100.91	FUFC10-P0509	£93.17
NTC 10 K Prekon	FUFC10PRE-P0503	£75.12	FUFC10PRE-P0504	£98.47	FUFC10PRE-P0509	£93.17
NTC 20 K	FUFC20-P0503	£74.82	FUFC20-P0504	£98.33	FUFC20-P0509	£90.74
NTC 30 K	FUFC30-P0503	£73.97	FUFC30-P0504	£97.18	FUFC30-P0509	£89.45
NTC 50 K	FUFC50-P0503	£72.96	FUFC50-P0504	£96.04	FUFC50-P0509	£88.30
KTY 11/6	FUFY11/6-P0503	£76.54	FUFY11/6-P0504	£100.34	FUFY11/6-P0509	£92.60
LM 235Z	FUFLM-P0503	£79.27	FUFLM-P0504	£103.35	FUFLM-P0509	£95.74

FUF room temperature sensor for flush installation with or without control elements . For measuring of temperatures, set value adjustment, presence reporting, control unit with control elements for use in living spaces and business rooms. LED, green and red max. 24V~, potentiometer standard 5Ω, rocker switch 1A/30V~/42V~, key button max. 35mA, 24V~, weight 80g.







Sensor	Model	List £	Model List £		Model	List £
PT 100	FUFP100-P0510	£110.08	FUFP100-P0511	£116.39	FUFP100-P0527	£106.79
PT 1000	FUFP1000-P0510	£113.95	FUFP1000-P0511	£120.40	FUFP1000-P0527	£110.23
NI 1000	FUFN1000-P0510	£114.67	FUFN1000-P0511	£120.98	FUFN1000-P0527	£110.95
NI 1000/TK 5000	FUFN1000/TK5000-P0510	£117.83	FUFN1000/TK5000-P0511	£124.14	FUFN1000/TK5000-P0527	£113.52
NTC 1 K 8	FUFC18-P0510	£113.52	FUFC18-P0511	£119.40	FUFC18-P0527	£109.22
NTC 3 K	FUFC03-P0510	£100.05	FUFC03-P0511	£106.36	FUFC03-P0527	£97.76
NTC 10 K	FUFC10-P0510	£102.48	FUFC10-P0511	£108.79	FUFC10-P0527	£99.91
NTC 10 K Prekon	FUFC10PRE-P0510	£100.05	FUFC10PRE-P0511	£106.36	FUFC10PRE-P0527	£97.76
NTC 20 K	FUFC20-P0510	£99.91	FUFC20-P0511	£106.22	FUFC20-P0527	£97.76
NTC 30 K	FUFC30-P0510	£98.76	FUFC30-P0511	£105.07	FUFC30-P0527	£96.75
NTC 50 K	FUFC50-P0510	£97.61	FUFC50-P0511 £103 .		FUFC50-P0527	£95.61
KTY 11/6	FUFY11/6-P0510	£101.92	FUFY11/6-P0511	£108.22	FUFY11/6-P0527	£99.48
LM 235Z	FUFLM-P0510	£104.93	FUFLM-P0511	£111.38	FUFLM-P0527	£102.21

FUF room temperature sensor for flush installation with or without control elements . For measuring of temperatures, set value adjustment, presence reporting, control unit with control elements for use in living spaces and business rooms. LED, green and red max. 24V~, potentiometer standard 5Ω, rocker switch 1A/30V~/42V~, key button max. 35mA, 24V~, weight 80g.







AF OUTDOOR TEMPERATURE SENSOR WITH PASSIVE OUTPUT

Model	List £	Measuring Range	Measurement Current	Sensor
AFP-100	£17.92	−30…100°C	Max. 3 mA	PT 100
AFP-1000	£19.92	−30…100°C	Max. 3 mA	PT-1000
AFN-1000	£19.92	−30…100°C	Max. 3 mA	NI-1000
AFN-1000 TK5000	£24.07	-30…100⁰C	Max. 3 mA	NI-1000 TK 5000
AFC-18	£23.22	−30…100°C	Max. 3 mA	NTC 1 K 8
AFC-03	£17.20	−30…100°C	Max. 3 mA	NTC 3 K
AFC-10	£17.20	-30…100⁰C	Max. 3 mA	NTC 10 K
AFC-10PRE	£17.20	-30100°C	Max. 3 mA	NTC 10 K Prekon
AFC-20	£17.20	−30…100°C	Max. 3 mA	NTC 20 K
AFC-30	£17.20	−30…100°C	Max. 3 mA	NTC 30 K
AFC-50	£17.20	-30…100⁰C	Max. 3 mA	NTC 50 K
AFY-11/6	£17.20	−30…100°C	Max. 3 mA	KTY 11/6
AFLM	£18.64	−30…100°C	Max. 3 mA	LM 235Z
AF-0	£19.36	-30…100⁰C	Max. 3 mA	"0" (NTC 2 K 25)
AF-1	£19.36	-30…100⁰C	Max. 3 mA	"1" (NTC 1 K)
AF-2	£19.36	−30…100°C	Max. 3 mA	"2" (NTC 47 K)
AF-3	£19.36	-30100°C	Max. 3 mA	"3" (NTC 8 K)
AF-4	£19.36	-30100°C	Max. 3 mA	"4" (NTC 10 K)
AF-8	£19.36	−30…100°C	Max. 3 mA	"8" (NTC 2 K)
AF-51	£19.36	-30…100⁰C	Max. 3 mA	"51" (PTC 1 K)

AF outdoor temperature sensor with passive output and internal sensor. For the detection of temperatures that exist outdoors or in wet room environments, cold storages and greenhouses. The devices are specially protected against the influence of dust and humidity.







AFH/AFHM OUTDOOR TEMPERATURE SENSOR WITH PASSIVE AND ACTIVE OUTPUT

Model	List £	Measuring Range		Measurement	Sensor		
WOUEI		Passive	Active	Current	Sensor		
AFHP-100	£37.12	-130100⁰C	-50…50⁰C	Max. 3 mA	PT 100		
AFHP-1000	£39.99	-130100°C	-50…50⁰C	Max. 3 mA	PT-1000		
AFHN-1000	£39.99	-130100°C	-50…50°C	Max. 3 mA	NI-1000		
AFHN-1000 TK5000	£42.14	-130100°C	-50…50°C	Max. 3 mA	NI-1000 TK 5000		
AFHC-18	£42.14	-130100°C	-50…50°C	Max. 3 mA	NTC 1 K 8		
AFHC-03	£39.99	-130100°C	-50…50⁰C	Max. 3 mA	NTC 3 K		
AFHC-10	£39.99	-130100°C	-50…50°C	Max. 3 mA	NTC 10 K		
AFHC-10PRE	£39.99	-130100°C	-50…50°C	Max. 3 mA	NTC 10 K Prekon		
AFHC-20	£39.99	-130100°C	-50…50°C	Max. 3 mA	NTC 20 K		
AFHC-30	£39.99	-130100°C	-50…50⁰C	Max. 3 mA	NTC 30 K		
AFHC-50	£39.99	-130100°C	-50…50°C	Max. 3 mA	NTC 50 K		
AFHY-11/6	£39.99	-130100°C	-50…50°C	Max. 3 mA	KTY 11/6		
AFHLM	£37.12	-130100°C	-50…50°C	Max. 3 mA	LM 235Z		
			C	DUTDOOR TEMPERA	ATURE SENSOR (ACTIVE)		
AFHM/0-10	£107.37	-50)50⁰C	Max. 3 mA	_		
AFHM/4-20	£107.37	-5050°C		Max. 3 mA	_		
	OUTDOOR TEMPERATURE SENSOR (ACTIVE)						
AFHM/2/0-10	£107.37	050°C		Max. 3 mA	_		
AFHM/2/4-20	£107.37	0	.50ºC	Max. 3 mA	_		

AF outdoor temperature sensor with passive and active output. AFH has a led-through sensor sleeve, AFHM has a measuring transducer 0-10 V or 4-20 mA with led-through sensor sleeve. For the detection of temperatures that exist outdoors or in wet room environments, cold storages and greenhouses. The devices are specially protected against the influence of dust and humidity.







HF SLEEVE TYPE TEMPERATURE SENSOR

Model	List £	Measuring Range	Measurement Current	Sensor
HFP100/P	£13.91	−35…80°C	Max. 3 mA	PT 100
HFP1000/P	£16.48	−35…80°C	Max. 3 mA	PT-1000
HFN1000/P	£17.63	−35…80ºC	Max. 3 mA	NI-1000
HFN1000 TK5000/P	£22.22	−35…80ºC	Max. 3 mA	NI-1000 TK 5000
HFC18/P	£20.35	−35…80°C	Max. 3 mA	NTC 1 K 8
HFC03/P	£14.90	-35…80⁰C	Max. 3 mA	NTC 3 K
HFC10/P	£14.90	-35…80⁰C	Max. 3 mA	NTC 10 K
HFC10PRE/P	£14.90	-35…80⁰C	Max. 3 mA	NTC 10 K Prekon
HFC20/P	£14.90	-3580⁰C	Max. 3 mA	NTC 20 K
HFC30/P	£14.90	-3580⁰C	Max. 3 mA	NTC 30 K
HFC50/P	£14.90	−35…80°C	Max. 3 mA	NTC 50 K
HFY11/6/P	£14.90	-35…80⁰C	Max. 3 mA	KTY 11/6
HFLM/P	£15.48	−35…80°C	Max. 3 mA	LM 235Z

HF sleeve type temperature sensor with PVC cable. For the detection of temperatures in liquid or gasiform media. Its design ensures the protection of the sleeve sensor against moisture and dust. A dip sleeve is needed when using the device in liquid media. See pages 95 onwards for these.







HF SLEEVE TYPE TEMPERATURE SENSOR

Model	List £	Measuring Range	Measurement Current	Sensor
HFP100/S	£20.49	–50…150⁰C	Max. 3 mA	PT 100
HFP1000/S	£23.08	–55…150⁰C	Max. 3 mA	PT-1000
HFN1000/S	£22.79	–55…150⁰C	Max. 3 mA	NI-1000
HFN1000 TK5000/S	£28.96	–55…150⁰C	Max. 3 mA	NI-1000 TK 5000
HFC18/S	£26.80	–55…150⁰C	Max. 3 mA	NTC 1 K 8
HFC03/S	£19.20	–55…150⁰C	Max. 3 mA	NTC 3 K
HFC10/S	£19.20	–55…150⁰C	Max. 3 mA	NTC 10 K
HFC10PRE/S	£19.20	–55…150⁰C	Max. 3 mA	NTC 10 K Prekon
HFC20/S	£19.20	–55…150⁰C	Max. 3 mA	NTC 20 K
HFC30/S	£19.20	–55…150⁰C	Max. 3 mA	NTC 30 K
HFC50/S	HFC50/S £19.20 –55150°C		Max. 3 mA	NTC 50 K
HFY11/6/S	£19.20	–55…150⁰C	Max. 3 mA	KTY 11/6
HFLM/S	£20.35	–55…150⁰C	Max. 3 mA	LM 235Z

HF sleeve type temperature sensor with silicone cable. For the detection of temperatures in liquid or gasiform media. Its design ensures the protection of the sleeve sensor against moisture and dust. A dip sleeve is needed when using the device in liquid media. See pages 95 onwards for these.







HF SLEEVE TYPE TEMPERATURE SENSOR

Model	List £	Ambient Temperature (cable)		e (cable)	Sensor		
WOder	LISU	PE	Silicone	PVC	Sensor		
HF-0	£23.65	-50100⁰C	-	-	"0" (NTC 2 K 25) PE cable 1.5m		
HF-0/6	£27.52	-50100°C	-	-	"0" (NTC 2 K 25) PE cable 6m		
HF-1	£25.22	-50100⁰C	-	-	"1" (NTC 1 K) PE cable 1.5m		
HF-2	£20.93	-50100⁰C	-	-	"2" (NTC 47 K) PE cable 1.5m		
HF-3	£22.79	-50100⁰C	-	-	"3" (NTC 8 K) PE cable 1.5m		
HF-3/6	£26.66	-50100⁰C	-	-	"3" (NTC 8 K) PE cable 6m		
HF-4	£23.80	-50100⁰C	-	-	"4" (NTC10 K) PE cable 1.5m		
HF-4/6	£27.66	-50100°C	-	-	"4" (NTC 10 K) PE cable 6m		
HF-5	£23.22	-50100⁰C	-	-	"5" (NTC 50 K) PE cable 1.5m		
HF-5/4K3	£31.53	-	-50150⁰C	-	"5" (NTC 50 K) silicone cable 4m		
HF-5/6	£27.09	-50100⁰C	-	-	"5" (NTC 50 K) PE cable 6m		
HF-6	£27.23	-	-50150⁰C	-	"6" (NTC 100 K) silicone cable 1.5m		
HF-6/3	£30.54	-	-50150⁰C	-	"6" (NTC 100 K) silicone cable 3m		
HF-8/4 K2	£39.42	-	-	-3580°C	"8" (NTC 2 K) PVC cable 4m		
HF-8/6 K2	£47.31	-	-	-3580°C	"8" (NTC 2 K) PVCcable 6m		
HF-51	£26.09	-	-50150⁰C	-	"51" (PTC 1 K) silicone cable 1.5m		
HF-51/6	£35.41	-	-50150⁰C	-	"51" (PTC 1 K) silicone cable 6m		
HF-57	£26.53	-50100⁰C	-	-	"57" (PTC 2 K) PE cable 1.5m		
HF-100	£32.97	-	-50150⁰C	-	PT-100 silicone cable 1.5m (4-wire)		
HF-100/6	£43.72	-	-50150⁰C	-	PT-100 silicone cable 6m (4-wire)		
HF-1000	£31.68	-	-50150⁰C	-	PT-1000 silcone cable 1.5m		

HF sleeve type temperature sensor (remote sensor for ALRE standard devices e.g ITR79). For the measuring of temperatures in liquid media after installation in a dip sleeve (TH/NTH). Also suited for the measuring of temperatures in air ducts or in non-aggressive types of gas when installed in a protective spiral such as SW-200. See page 95 for these.







LF AIR TEMPERATURE SENSOR

Model	List £	Measuring Range PE Cable	Sensor
LF-20	£24.79	-5080°C	"0" (NTC 2 K 25) PE cable 1.5m
LF-21	£24.79	-5080⁰C	"1" (NTC 1 K) PE cable 1.5m
LF-22	£24.79	-5080°C	"2" (NTC 47 K) PE cable 1.5m
LF-23	£24.79	-5080°C	"3" (NTC 8 K) PE cable 1.5m
LF-24	£24.79	−5080°C	"4" (NTC10 K) PE cable 1.5m
LF-24/4	£35.54	-5080°C	"4" (NTC 10 K) PE cable 4m
LF-25	£24.79	−5080°C	"5" (NTC 50 K) PE cable 1.5m
LF-25/4	£35.54	-5080°C	"5" (NTC 50 K) PE cable 4m
LF-8/4	£35.54	−5080°C	"8" (NTC 2 K) PE cable 4m
LF-51	£24.79	−5080°C	"51" (PTC 1 K) PE cable 1.5m
LF-51/6	£44.44	-5080°C	"51" (PTC 1 K) PE cable 6m
LF-100	£33.54	-5080°C	PT-100 PE cable 1.5m
LF-1000	£36.13	-50…80⁰C	PT-1000 PE cable 1.5m

LF air temperature sensor (remote sensor for ALRE standard devices e.g ITR79). For the measuring of temperatures in air ducts or non-aggressive types of gas. Installation in a protective spiral is required. (SW-200). See page 95 for these.







PF ROOM PENDULUM TEMPERATURE SENSOR

Model	List £	Measuring Range	Sensor				
PFP-100	£86.43	-3080°C	PT-100				
PFP-1000	£87.87	-3080°C	PT-1000				
PFN-1000	£87.87	-3080°C	NI-1000				
PFN-1000 TK5000	£93.60	-3080°C	NI-1000 TK-5000				
PFC-18	£90.74	-3080°C	NTC 1 K 8				
PFC-03	£90.74	-3080°C	NTC 3 K				
PFC-10	£90.74	-3080°C	NTC 10 K				
PFC-10PRE	£90.74	-3080°C	NTC 10 K Prekon				
PFC-20	£90.74	-3080°C	NTC 20 K				
PFC-30	£90.74	-3080°C	NTC 30 K				
PFC-50	£90.74	-3080°C	NTC 50 K				
PFY-11/6	£87.87 –3080°C		KTY-11/6				
PFLM	£87.87	-3080°C	LM-235Z				

PF room pendulum temperature sensor. For the detection of temperatures in larger rooms. Owing to its ball shape, it picks up temperatures from all directions within the room for more a representative measuring result.







STF ROOM RADIATION TEMPERATURE SENSOR

Model	List £	Measuring Range	Sensor	Equipment	
STF-0	£55.19	-35…100⁰C	NTC 2 K 25	2 NTC sensors "0"	
STF-2	£55.19	-35…100⁰C	NTC 47 K	2 NTC sensors "2"	
STF-4	£55.19	-35…100⁰C	NTC 10 K	2 NTC sensors "4"	
STF-51	£55.19	–35…100⁰C	PTC 1 K	2 NTC sensors "51"	

STF room radiation temperature sensor. A double sensor that enables the detection of temperatures developed by heat radiation sources that exist within rooms. The radiation sensor is integrated in in the black hemisphere while the room temperature sensor is located in the plastic housing.







MWF MEAN TEMPERATURE SENSOR WITH PASSIVE AND ACTIVE OUTPUT

Model	List £	Sensor Length	Sensor	Output	Measuring Range		
MWFP-1000/3-cu	£106.40	3m	PT-1000	_	_		
MWFP-1000/6-cu	£256.27	6m	PT-1000	_	_		
MWFN-1000/6-cu	£256.57	6m	Ni-1000	_	_		
MWFN-1000 TK- 5000/0,4-cu	£121.84	0.4m	Ni-1000 TK-5000	_	_		
MWFN-1000 TK- 5000/0,3-cu	£190.65	3m	Ni-1000 TK-5000	_	_		
MWFN-1000 TK- 5000/0,6-cu	£270.91	6m	Ni-1000 TK-5000	-	_		
		MEAN TEMPE	RATURE SENSOR W	ITH MEASURING TRANSDUCER	0-10V		
MWFM/0-10/0,4-cu	£189.21	0.4m	_	0-10V	-2080°C		
MWFM/0-10/0,6-cu	£328.24	6m	_	0-10V	-2080°C		
MEAN TEMPERATURE SENSOR WITH MEASURING TRANSDUCER 4-20mA							
MWFM/4-20/6-cu	£328.24	6m	_	4-20mA	-2080°C		

MWF mean temperature sensor with passive and active output. For the detection of the main temperature prevailing in gasiform media that flow in air ducts, or of the main temperature in air flows produced by coil heating systems or drying ovens. Is enabled to measure the temperature over the entire length of the sensor line. The mean temperature model MWFM transduces, in a temperature-linear manner, the temperature-dependent resistance of the sensor to a voltage signal of 0-10V or a current signal of 4 20mA.

ACCESSORIES FOR THE MWF MEAN TEMPERATURE SENSOR

Model	List £	Equipment
JZ-05/6M	£12.33	1 set of installation clips (six metal pieces)
MF	£5.88	Installation flange
alr	9	Controls Uk Controls Uk Temperature, Pressure, Humidity & Flow



EKF BUILT IN DUCT SENSOR WITH PASSIVE OUTPUT

Sensor	Model	List £	Model	List £	Model	List £
PT 100	EKFP-100/50	£35.27	EKFP-100/100	£35.97	EKFP-100/150	£37.41
PT 1000	EKFP-1000/50	£35.97	EKFP-1000/100	£38.13	EKFP-1000/150	£39.56
NI 1000	EKFN-1000/50	£35.97	EKFN-1000/100	£38.85	EKFN-1000/150	£41.00
NI 1000/TK 5000	EKFN-1000 TK 5000/50	£42.43	EKFN-1000 TK 5000/100	£43.86	EKFN-1000 TK 5000/150	£45.44
NTC 1 K 8	EKFC-18/50	£39.56	EKFC-18/100	£41.00	EKFC-18/50	£42.43
NTC 3 K	EKFC-03/50	£31.68	EKFC-03/100	£33.83	EKFC-03/150	£35.27
NTC 10 K	EKFC-10/50	£31.68	EKFC-0/100	£33.83	EKFC-10/150	£35.27
NTC 10 K Prekon	EKFC-10PRE/50	£31.68	EKFC-10PRE/100	£33.83	EKFC-10PRE/150	£35.27
NTC 20 K	EKFC-20/50	£31.68	EKFC-20/100	£33.83	EKFC-20/150	£35.27
NTC 30 K	EKFC-30/50	£31.68	EKFC-30/100	£33.83	EKFC-30/150	£35.27
NTC 50 K	EKFC-50/50	£31.68	EKFC-50/100	£33.83	EKFC-50/150	£35.27
KTY 11/6	EKFY-11/6/50	£31.68	EKFY-11/6/100	£33.83	EKFY-11/6/150	£35.27
LM 235Z	EKFLM-50	£35.97	EKFLM-100	£36.69	EKFLM-150	£38.13

EKF built in duct sensor. For measuring temperatures in liquids and gases that flow in pipes, conduits, air ducts, reservoirs, tanks and containers. If for use in air, the use of a special installation flange is required. For liquids, a nickel plated dip sleeve must be applied. First column for 50mm dip sleeves, fourth column for 100mm dip sleeves and sixth column for 150mm dip sleeves. See page 95 for dip sleeves.







EKF BUILT IN DUCT SENSOR WITH PASSIVE OUTPUT

Sensor	Model	List £	Model	List £	Model	List £
PT 100	EKFP-100/200	£38.85	EKFP-100/250	£41.72	EKFP-100/300	£44.58
PT 1000	EKFP-1000/200	£41.00	EKFP-1000/250	£44.72	EKFP-1000/300	£47.60
NI 1000	EKFN-1000/200	£42.43	EKFN-1000/250	£44.01	EKFN-1000/300	£46.88
NI 1000/TK 5000	EKFN-1000 TK 5000/200	£46.88	EKFN-1000 TK 5000/250	£47.60	EKFN-1000 TK 5000/300	£50.46
NTC 1 K 8	EKFC-18/200	£44.72	EKFC-18/250	£45.44	EKFC-18/50/300	£48.30
NTC 3 K	EKFC-03/200	£37.41	EKFC-03/250	£38.13	EKFC-03/150/300	£41.00
NTC 10 K	EKFC-10/200	£37.41	EKFC-0/250	£38.13	EKFC-10/300	£41.00
NTC 10 K Prekon	EKFC-10PRE/200	£37.41	EKFC-10PRE/250	£38.13	EKFC-10PRE/300	£41.00
NTC 20 K	EKFC-20/200	£37.41	EKFC-20/250	£38.13	EKFC-20/300	£41.00
NTC 30 K	EKFC-30/200	£37.41	EKFC-30/250	£38.13	EKFC-30/300	£41.00
NTC 50 K	EKFC-50/200	£37.41	EKFC-50/250	£38.13	EKFC-50/300	£41.00
KTY 11/6	EKFY-11/6/200	£37.41	EKFY-11/6/250	£38.13	EKFY-11/6/300	£41.00
LM 235Z	EKFLM-200	£39.56	EKFLM-250	£42.43	EKFLM-300	£45.30

EKF built in duct sensor. For measuring temperatures in liquids and gases that flow in pipes, conduits, air ducts, reservoirs, tanks and containers. If for use in air, the use of a special installation flange is required. For liquids, a nickel plated dip sleeve must be applied. First column for 200mm dip sleeves, fourth column for 250mm dip sleeves and sixth column for 300mm dip sleeves. See page 95 for dip sleeves.







GFL BUILT IN DUCT SENSOR WITH PASSIVE OUTPUT

Sensor	Model	List £	Model	List £	Model	List £
"0" (NTC 2 K 25)	GFL-0	£44.01	-	-	_	-
"1" (NTC 1 K)	GFL-1	£44.01	_	-	_	_
"2" (NTC 47 K)	GFL-2	£44.01	_	-	_	-
"3" (NTC 8 K)	GFL-3	£44.01	_	-	_	-
"4" (NTC 10 K)	GFL-4	£37.41	_	-	_	-
"5" (NTC 50 K)	GFL-5	£44.01	-	-	-	-
"51" (PTC 1 K)	GFL-51	£44.01	_	-	_	_

GFL built in duct sensor. For measuring temperatures in liquids and gases that flow in pipes, conduits, air ducts, reservoirs, tanks and containers. If for use in air, the use of a special installation flange is required. For liquids, a nickel plated dip sleeve must be applied. Dip sleeve size is 200mm. See page 95 for dip sleeves.

ACCESSORIES FOR EKF/GFL BUILT IN DUCT SENSOR

Model	List £	Equipment
MF	£5.88	Installation flange







EKGM BUILT IN DUCT SENSOR WITH ACTIVE OUTPUT

Sensor Tube	Model Output 010v	List £	Model Output 420mA	List £	Model Output 010v	List £
65mm (for 50mm dip sleeve)	EKFM1/0-10/50	£107.64	EKFM1/4-20/50	£109.51	EKFM2/0-10/50	£107.64
115mm (for 100mm dip sleeve)	EKFM1/0-10/100	£108.22	EKFM1/4-20/100	£111.66	EKFM2/0-10/100	£108.22
165mm (for 150mm dip sleeve)	EKFM1/0-10/150	£109.80	EKFM1/4-20/150	£113.09	EKFM2/0-10/150	£109.80
215mm (for 200mm dip sleeve)	EKFM1/0-10/200	£110.52	EKFM1/4-20/200	£113.95	EKFM2/0-10/200	£110.52
265mm (for 250mm dip sleeve)	EKFM1/0-10/250	£111.23	EKFM1/4-20/250	£114.53	EKFM2/0-10/250	£111.23
315mm (for 300mm dip sleeve)	EKFM1/0-10/300	£114.10	EKFM1/4-20/300	£116.82	EKFM2/0-10/300	£114.10

EKFM built in duct sensor with active output and meauring transducer. For measuring temperatures in liquids and gases that flow in pipes, conduits, air ducts, reservoirs, tanks and containers. If for use in air, the use of a special installation flange is required. For liquids, a nickel plated dip sleeve must be applied. See page 95 for dip sleeves.







EKGM BUILT IN DUCT SENSOR WITH ACTIVE OUTPUT

Sensor Tube	Model Output 4-20mA	List £	Model Output 010v	List £	Model Output 420mA	List £
65mm (for 50mm dip sleeve)	EKFM2/4-20/50	£109.51	EKFM3/0-10/50	£107.64	EKFM3/4-20/50	£109.51
115mm (for 100mm dip sleeve)	EKFM2/4-20/100	£111.66	EKFM3/0-10/100	£108.22	EKFM3/4-20/100	£111.66
165mm (for 150mm dip sleeve)	EKFM2/4-20/150	£113.09	EKFM3/0-10/150	£109.80	EKFM3/4-20/150	£113.09
215mm (for 200mm dip sleeve)	EKFM2/4-20/200	£113.95	EKFM3/0-10/200	£110.52	EKFM3/4-20/200	£113.95
265mm (for 250mm dip sleeve)	EKFM2/4-20/250	£114.53	EKFM3/0-10/250	£111.23	EKFM3/4-20/250	£114.53
315mm (for 300mm dip sleeve)	EKFM2/4-20/300	£117.40	EKFM3/0-10/300	£114.10	EKFM3/4-20/300	£117.40

EKFM built in duct sensor with active output and meauring transducer. For measuring temperatures in liquids and gases that flow in pipes, conduits, air ducts, reservoirs, tanks and containers. If for use in air, the use of a special installation flange is required. For liquids, a nickel plated dip sleeve must be applied. See page 95 for dip sleeves.

ACCESSORIES FOR EFKM BUILT IN DUCT SENSOR

Model	List £	Equipment
MF	£5.88	Installation flange







IKF1 INDUSTRIAL BUILT IN DUCT SENSOR WITH PASSIVE OUTPUT

Sensor	Model	List £	Model	List £	Model	List £
PT 100	IKF1P-100/50	£60.06	IKF1P-100/100	£61.35	IKF1P-100/150	£61.93
PT 1000	IKF1P-1000/50	£62.93	IKF1P-1000/100	£63.78	IKF1P-1000/150	£65.51
NI 1000	IKF1N-1000/50	£63.78	IKF1N-1000/100	£65.94	IKF1N-1000/150	£66.22
NI 1000/TK 5000	IKF1N-1000 TK 5000/50	£70.52	IKF1N-1000 TK 5000/100	£71.10	IKF1N-1000 TK 5000/150	£71.96
NTC 1 K 8	IKF1C-18/50	£62.93	IKF1C-18/100	£63.78	IKF1C-18/150	£64.93
NTC 3 K	IKF1C-03/50	£62.93	IKF1C-03/100	£63.78	IKF1C-03/150	£64.93
NTC 10 K	IKF1C-10/50	£62.93	IKF1C-10/100	£63.78	IKF1C-10/150	£64.93
NTC 10 K Prekon	IKF1C-10PRE/50	£62.93	IKF1C-10PRE/100	£63.78	IKF1C-10PRE/150	£64.93
NTC 20 K	IKF1C-20/50	£62.93	IKF1C-20/100	£63.78	IKF1C-20/150	£64.93
NTC 30 K	IKF1C-30/50	£62.93	IKF1C-30/100	£63.78	IKF1C-30/150	£64.93
NTC 50 K	IKF1C-50/50	£62.93	IKF1C-50/100	£63.78	IKF1C-50/150	£64.93
KTY 11/6	IKF1Y-11/6/50	£62.93	IKF1Y-11/6/100	£63.78	IKF1Y-11/6/150	£64.93
LM 235Z	IKF1LM-50	£63.78	IKF1LM-100	£64.79	IKFLM-150	£66.08

IKF1 industrial built in duct sensor. For measuring temperatures in liquids and gases that flow in pipes, conduits, air ducts, reservoirs, tanks and containers used in the machine apparatus and plant engineering sphere. If for use in air, the use of a special installation flange is required. For liquids, a nickel plated dip sleeve must be applied. Column two is for 50mm dip sleeves, column four for 100mm dip sleeves and column six for 150mm dip sleeves. See page 95 for dip sleeves.







IKF1 INDUSTRIAL BUILT IN DUCT SENSOR WITH PASSIVE OUTPUT

Sensor	Model	List £	Model	List £	Model	List £
PT 100	IKF1P-100/200	£62.93	IKF1P-100/250	£64.64	IKF1P-100/300	£67.95
PT 1000	IKF1P-1000/200	£66.65	IKF1P-1000/250	£68.09	IKF1P-1000/300	£71.53
NI 1000	IKF1N-1000/200	£72.68	IKF1N-1000/250	£73.39	IKF1N-1000/300	£76.83
NI 1000/TK 5000	IKF1N-1000 TK 5000/200	£72.68	IKF1N-1000 TK 5000/250	£73.39	IKF1N-1000 TK 5000/300	£76.83
NTC 1 K 8	IKF1C-18/200	£66.22	IKF1C-18/250	£67.23	IKF1C-18/300	£70.66
NTC 3 K	IKF1C-03/200	£66.22	IKF1C-03/250	£67.23	IKF1C-03/300	£70.66
NTC 10 K	IKF1C-10/200	£66.22	IKF1C-10/250	£67.23	IKF1C-10/300	£70.66
NTC 10 K Prekon	IKF1C-10PRE/200	£66.22	IKF1C-10PRE/250	£67.23	IKF1C-10PRE/300	£70.66
NTC 20 K	IKF1C-20/200	£66.22	IKF1C-20/250	£67.23	IKF1C-20/300	£70.66
NTC 30 K	IKF1C-30/200	£66.22	IKF1C-30/250	£67.23	IKF1C-30/300	£70.66
NTC 50 K	IKF1C-50/200	£66.22	IKF1C-50/250	£67.23	IKF1C-50/300	£70.66
KTY 11/6	IKF1Y-11/6/200	£66.22	IKF1Y-11/6/250	£67.23	IKF1Y-11/6/300	£70.66
LM 235Z	IKF1LM-200	£67.80	IKF1LM-250	£68.94	IKFLM-300	£72.39

IKF1 industrial built in duct sensor. For measuring temperatures in liquids and gases that flow in pipes, conduits, air ducts, reservoirs, tanks and containers used in the machine apparatus and plant engineering sphere. If for use in air, the use of a special installation flange is required. For liquids, a nickel plated dip sleeve must be applied. Column two is for 200mm dip sleeves, column four for 250mm dip sleeves, and column six for 300mm dip sleeves. See page 95 for dip sleeves.







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Sensor Tube	Model Output 010v	List £	Model Output 420mA	List £	Model Output 010v	List £
65mm (for 50mm dip sleeve)	IKF1M1/0-10/50	£151.95	IKF1M1/4-20/50	£151.95	IKF1M2/0-10/50	£151.95
115mm (for 100mm dip sleeve)	IKF1M1/0-10/100	£162.70	IKF1M1/4-20/100	£162.70	IKF1M2/0-10/100	£162.70
165mm (for 150mm dip sleeve)	IKF1M1/0-10/150	£165.27	IKF1M1/4-20/150	£165.27	IKF1M2/0-10/150	£165.27
215mm (for 200mm dip sleeve)	IKF1M1/0-10/200	£167.86	IKF1M1/4-20/200	£167.86	IKF1M2/0-10/200	£167.86
265mm (for 250mm dip sleeve)	IKF1M1/0-10/250	£171.44	IKF1M1/4-20/250	£171.44	IKF1M2/0-10/250	£171.44
315mm (for 300mm dip sleeve)	IKF1M1/0-10/300	£174.31	IKF1M1/4-20/300	£174.31	IKF1M2/0-10/300	£174.31

IKF1M industrial built in duct sensor with active output and meauring transducer. For measuring temperatures in liquids and gases that flow in pipes, conduits, air ducts, reservoirs, tanks and container used in the machine, apparatus and plant engineering sphere.. If for use in air, the use of a special installation flange is required. For liquids, a nickel plated dip sleeve must be applied. See page 95 for dip sleeves.

ACCESSORIES FOR IKF1M BUILT IN DUCT SENSOR

Model	List £	Equipment
MF	£5.88	Installation flange







IK1FM INDUSTRIAL BUILT IN DUCT SENSOR WITH ACTIVE OUTPUT

Sensor Tube	Model Output 4-20mA	List £	Model Output 010v	List £	Model Output 420mA	List £
65mm (for 50mm dip sleeve)	IKF1M2/4-20/50	£151.95	_	-	_	-
115mm (for 100mm dip sleeve)	IKF1M2/4-20/100	£162.70	-	-	_	-
165mm (for 150mm dip sleeve)	IKF1M2/4-20/150	£165.27	-	-	-	-
215mm (for 200mm dip sleeve)	IKF1M2/4-20/200	£167.86	-	_	-	-
265mm (for 250mm dip sleeve)	IKF1M2/4-20/250	£171.44	_	_	_	-
315mm (for 300mm dip sleeve)	IKF1M2/4-20/300	£174.31	_	-	_	_

EKFM built in duct sensor with active output and meauring transducer. For measuring temperatures in liquids and gases that flow in pipes, conduits, air ducts, reservoirs, tanks and containers. If for use in air, the use of a special installation flange is required. For liquids, a nickel plated dip sleeve must be applied. See page 95 for dip sleeves.

ACCESSORIES FOR IKF1M BUILT IN DUCT SENSOR

Model	List £	Equipment
MF	£5.88	Installation flange







OF SURFACE TEMPERATURE SENSOR

Model	List £	Measuring Range	Sensor
OFP-100	£29.39	-2080°C	PT-100
OFP-1000	£30.81	-2080°C	PT-1000
OFN-1000	£33.69	-2080°C	NI-1000
OFN-1000 TK-5000	£36.55	-2080°C	NI-1000 TK-5000
OFC-18	£31.53	-2080°C	NTC 1 K 8
OFC-03	£30.81	-2080°C	NTC 3 K
OFC-10	£30.81	-2080°C	NTC 10 K
OFC-10 PRE	£30.81	-2080°C	NTC 10 K Prekon
OFC-20	£30.81	-2080°C	NTC 20 K
OFC-30	£30.81	-2080°C	NTC 30 K
OFC-50	£30.81	-2080°C	NTC 50 K
OFY-11/6	£30.81	-2080°C	KTY-11/6
OFLM	£32.25	-2080°C	LM-235Z

OF surface temperature sensor. For the detection of temperatures on smooth and even surfaces such as glass, heaters or radiators. The sensor holder is fixed to the surface by means of an adhesive foil. A pressure spring serves for the required surface contact between the sensor and the measuring point to be controlled.







ALF CLIP-ON TEMPERATURE SENSOR WITH PASSIVE AND ACTIVE OUTPUT

Model	List £	Measuring Range		Output	Senser
woder	LISLE	Passive	Active	Output	Sensor
ALFP-100	£22.94	-30…105⁰C	-	-	PT-100
ALFP-1000	£24.37	-30…105⁰C	-	_	PT-1000
ALFN-1000	£24.37	-30…105⁰C	-	-	NI-1000
ALFN-1000 TK-5000	£28.38	-30…105⁰C	-	-	NI-1000 TK-5000
ALFC-18	£27.66	-30…105⁰C	-	-	NTC 1 K 8
ALFC-03	£20.06	-30…105⁰C	-	-	NTC 3 K
ALFC-10	£20.06	-30…105⁰C	-	-	NTC 10 K
ALFC-10PRE	£20.06	-30…105⁰C	-	-	NTC 10 K Prekon
ALFC-20	£20.06	-30…105⁰C	-	_	NTC 20 K
ALFC-30	£20.06	-30…105⁰C	-	_	NTC 30 K
ALFC-50	£20.06	-30…105⁰C	-	_	NTC 50 K
ALFY-11/6	£20.06	-30…105⁰C	-	_	KTY-11/6
ALFLM	£23.65	-30…105⁰C	-	_	LM-235Z
ALF-0	£27.95	-30…105⁰C	-	-	"0" (NTC 2 K 25)
ALF-2	£27.95	-30…105⁰C	-	-	"2" (NTC 47 K)
ALF-3	£27.95	-30…105⁰C	-	-	"3" (NTC 8 K)
ALF-4	£27.95	-30…105⁰C	-	-	"4" (NTC 10 K)
ALF-5	£27.95	-30…105⁰C	-	-	"5" (NTC 50 K)
ALF-51	£27.95	–30…105⁰C	-	-	"51" (PTC 1 K)
			CLIP ON TEMPERATU	RE SENSOR, ACTIVE	
ALFM/0-10	£103.06	-	0100°C	0-10V	-
ALFM/4-20	£103.06	-	0100°C	4-20mA	_

ALF clip-on temperature sensor with passive and active output. For the detection of temperatures at conduits, pipes or heaters. The active clip-on sensor ALFM transduces, in a temperature-linear manner, the temperature-dependent resistance of the sensor to a voltage signal of 0 to 10V or to a current signal of 4-20mA.







Model	List £	Current Output	Power Supply	Output	Measuring Range
DF-50UGT3	£294.57	420 mA	1530 V=	010V	050 Pa
DF-100UGT3	£260.31	420 mA	1530 V=	010V	0100 Pa
DF-300UGT3	£215.15	420 mA	1530 V=	010V	0300 Pa
DF-500UGT3	£215.15	420 mA	1530 V=	010V	0500 Pa
DF-1000UGT3	£215.15	420 mA	1530 V=	010V	01000 Pa
DF-2000UGT3	£215.15	420 mA	1530 V=	010V	02000 Pa
DF-3000UGT3	£215.15	420 mA	1530 V=	010V	03000 Pa
DF-7000UGT3	£215.15	420 mA	1530 V=	010V	07000Pa

DF DIFFERENTIAL PRESSURE MEASURING TRANSDUCER

DF differential pressure measuring transducer. For the supervision of filters and the measuring of filling levels in the ventilation, air conditioning and clean room engineering sphere. Also suited for the measuring of over and negative pressures as well as differential pressures that occur in non-aggressive gasiform types of media.

ACCESSORIES FOR THE DF DIFFERENTIAL PRESSURE MEASURING TRANSDUCER

Model	List £	Equipment
JZ-06/1	£6.45	Connection set including plastic conduit connections, 2 x 90° elbows, 2 extension pieces, 4 self-tapping screws and a 2m hose









MUD PRESSURE MEASURING TRANSDUCER

Model	List £	Output	Temperature of the Medium/Ambient Temperature	Measuring Range			
		PRESSURE MEASUR	RING TRANSDUCER 0-160 MBAR				
MUD/0-10/0,16	£181.75	0-10V	-40100°C	0-160 mbar			
MUD/4-20/0,16	£184.63	4-20mA	-40100°C	0-160 mbar			
		PRESSURE MEASU	IRING TRANSDUCER 0-2.5 BAR				
MUD/0-10/2.5	£174.73	0-10V	-40100°C	0-2.5 bar			
MUD-4-20/2.5	£177.60	4-20mA	-40100°C	0-2.5 bar			
		PRESSURE MEAS	URING TRANSDUCER 0-6 BAR				
MUD/0-10/6	£174.73	0-10V	-40100°C	0-6 bar			
MUD/4-20/6	£177.60	4-20mA	-40100°C	0-6 bar			
		PRESSURE MEASU	JRING TRANSDUCER 0-10 BAR				
MUD/0-10/10	£174.73	0-10V	-40100°C	0-10 bar			
MUD/4-20/10	£177.60	4-20mA	-40100°C	0-10 bar			
	PRESSURE MEASURING TRANSDUCER 0-25 BAR						
MUD/0-10/25	£174.73	0-10V	-40100°C	0-25 bar			
MUD/4-20/25	£177.60	4-20mA	-40100°C	0-25 bar			
	PRESSURE MEASURING TRANSDUCER 0-60 BAR						
MUD/0-10/60	£174.73	0-10V	-40100°C	0-60 bar			
MUD/4-20/60	£177.60	4-20mA	-40100°C	0-60 bar			

MUD pressure measuring transducer. For the measuring of pressures that occur in non-aggressive gasiform or liquid media used in the hydraulic, pneumatic, machine plant engineering and/or process technology sphere. The stainless steel membrane is absolutely vacuum tight.







FS AIRFLOW MEASURING TRANSDUCER

Model	List £	List £ Output Equipment	
FS-K3	£324.38	010V or 420mA	Duct sensor for the sensing of flows (sensor length 200mm)
FS-3	£373.25	010V or 420mA	Duct sensor for the sensing of flows including remote sensor and 1m long cable (sensor length 150mm)

FS airflow measuring transducer. For the detection of air velocities and the commutation of these variables to an electric standard signal within the range from 0 to 10 V or 4 to 20 mA. Specially suited for the application as a duct sensor in the refrigeration, air conditioning, ventilation engineering and process technology sphere.









RBS INDOOR & ABS OUTDOOR MOTION SENSOR

Model	List £	Sensing Coverage	Detection Distance	Supply Voltage	Output
RBS	£250.85	360°	Max. 10m	24V~/=	Relay
ABS	£213.86	360°	Max. 10m	24V~/=	Relay

RBS indoor and ABS outdoor motion sensor. The RBS sensor recognizes the presence of persons in office rooms, living spaces and business rooms. The ABS sensor recognizes the presence of persons and motions in outdoor areas, industrial halls or greenhouses.









Model	List £	Ambient Temperature	Running-in time	Supply Voltage	Output			
RLS	£216.45	050⁰C	Approx. 1 hour	24V~/=	0-10V, 4-20mA			
RLS/R	£232.21	050°C	Approx. 1 hour	24V~/=	0-10V, 4-20mA, relay*			
KLS	£299.58	050°C	Approx. 1 hour	24V~/=	0-10V, 4-20mA			
KLS/R	£319.65	050°C	Approx. 1 hour	24V~/=	0-10V, 4-20mA, relay*			
	*Re	*Relay contact suited only for the switching of safety extra low voltage (SELV), max 30VAC, 120VDC1 (0.2) A.						

RLS ROOM AIR QUALITY SENSOR AND KLS DUCT AIR QUALITY SENSOR

RLS room air and KLS duct air quality sensors. The first serves for the requirement-dependent ventilation of living spaces, offices or restaurants. It evaluates the pollution of these spaces with gases. It is not suited for the execution of a selective CO2 measurement.









RHS INDOOR AND AHS OUTDOOR BRIGHTNESS SENSOR

Model	List £	Measuring Range	Range of Application	Supply Voltage	Output
RHS/0-10	£95.32	020klx	-	24V~/=	0-10V
AHS/0-10	£109.65	020klx	−2070°C	24V~/=	0-10V
AHS/0-10/50	£115.39	050klx	−2070°C	24V~/=	0-10V
AHS/0-10/100	£126.86	0100klx	−2070°C	24V~/=	0-10V

RHS indoor and AHS outdoor brightness sensors. The indoor sensor serves for the control of lighting installations, awnings and blinds. The device is especially suited for the supervision of light conditions in the workplace. The outdoor sensor serves the same purpose in exterior areas such as greenhouses, industry halls or storage depots.









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Model	List £	Measuring Range (Humidity)	Ambient Temperature	Operating Voltage	Equipment
ATFT	£208.56	10…90% r.H	–5…55⁰C	0-10V, 4-20mA	Temperature/humidity 0-10V/4-20mA
AFT/P100	£193.51	10…90% r.H	-555⁰C	0-10V, 4-20mA	Humidity 0-10V/4-20mA, temperature sensor PT100
AFT/P1000	£193.51	10…90% r.H	-555⁰C	0-10V, 4-20mA	Humidity 0-10V/4-20mA, temperature sensor PT1000
AFT/NI1000	£197.81	1090% r.H	–5…55⁰C	0-10V, 4-20mA	Humidity 0-10V/4-20mA, temperature sensor NI1000

AFT/ATFT temperature and humidity measuring transducer for use in outdoor areas. Especially suited for applications in the building automation, refrigeration, air conditioning and ventilating engineering or clean room technology sphere.





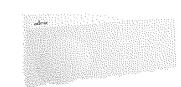


TF/FF/FTF TEMPERATURE AND HUMIDITY MEASURING TRANSDUCER

Model	List £	Measuring Range	Output	Equipment			
FF-R2	£175.73	050°C	420mA	Humidity room sensor			
TF-R2	£102.48	050°C	420mA	Temperature room sensor			
FTF-R2	£213.14	050°C	420mA	Humidity/temperature room sensor			
FF-R1	£175.73	050°C	010V	Humidity room sensor			
TF-R1	£102.48	050°C	010V	Temperature room sensor			
FTF-R1	£213.14	050°C	010V	Humidity/temperature room sensor			
FF-K2	£199.96	050°C	420mA	Humidity duct sensor			
TF-K2	£109.65	050°C	420mA	Humidity duct sensor			
FTF-K2	£258.15	050°C	420mA	Humidity/temperature duct sensor			
FF-K1	£199.96	050°C	010V	Humidity duct sensor			
TF-K1	£109.65	050°C	010V	Temperature duct sensor			
FTF-K1	FTF-K1 £258.15 050°C 010V Humidity/temperature duct sensor						
	T= Temperature						
	F= Humidity						
	FT= Humidity/Temperature						
			R= Room Installation				
			K= Duct Installation				

TF/FF/FTF temperature and humidity measuring transducer (room and duct version). For the detection of temperatures (type TF), of the relative humidity (type FF) or of both temperature and humidity (type FTF). Especially suited for use within the refrigeration, air conditioning and ventilation engineering sphere.









MISCELLANEOUS

THK/NHK/SWK/SW DIP SLEEVE/PROTECTIVE SPIRAL FOR KR/LR 80/85 AND FOR SLEEVE AND AIR SENSORS

Model	List £	Length	Diameter	Max. Pressure (P/bar)	Material
			DIP SLEEVE	S FOR KR 80/85	
THK-100	£13.10	100mm	8 x 10mm	20	Nickel-plated brass
THK-120	£13.10	120mm	8 x 10mm	20	Nickel-plated brass
THK-200	£15.36	200mm	8 x 10mm	20	Nickel-plated brass
THK-280	£18.84	280mm	8 x 10mm	20	Nickel-plated brass
THK-600	£30.20	600mm	8 x 10mm	20	Nickel-plated brass
NTHK-100	£36.35	100mm	8 x 10mm	40	V4 A (1.4571)
NTHK-120	£34.10	120mm	8 x 10mm	40	V4 A (1.4571)
NTHK-200	£37.57	200mm	8 x 10mm	40	V4 A (1.4571)
NTHK-280	£38.70	280mm	8 x 10mm	40	V4 A (1.4571)
THK-100 X 17	£21.09	100mm	15 x 17mm	20	Nickel-plated brass
THK-200 X 17	£25.70	200mm	15 x 17mm	20	Nickel-plated brass
NTHK-100 X 17	£35.84	100mm	15 x 17mm	40	V4 A (1.4571)
NTHK-200 X 17	£39.22	200mm	15 x 17mm	40	V4 A (1.4571)
			PROTECTIVE	SPIRAL FOR LR 80	
SWK-100	£11.98	100mm	11 x 17mm	-	Nickel-plated steel
SWK-120	£13.10	1220mm	11 x 17mm	-	Nickel-plated steel
SWK-200	£15.36	200mm	11 x 17mm	-	Nickel-plated steel
SWK-280	£18.84	280mm	11 x 17mm	-	Nickel-plated steel
PROTE	CTIVE SPIRA	LFOR CAPILLARIES IN A	IR DUCTS (JET/JMT/	/JTF/WR81) & INSTALI	ATION OF ALL HF SLEEVE & LF AIR SENSORS
SW-200	£14.84	200mm	11 x 17mm	_	Nickel-plated steel
SW-200-12	£14.84	200mm	11 x 17mm	_	Nickel-plated steel









TH/NTH/DIP SLEEVES FOR CAPILLARY AND FROST PROTECTION THERMOSTATS AND HF SLEEVE SENSORS

Model	List £	Length	Diameter	Max. Pressure (P/bar)	Material
	FOR Ø7	MM HF SLEEVE SENSC	ORS AND JET/JMT/W	R81 & JTF THERMOST	ATS (TH/NTH-140 WITH JTF ONLY)
TH-55	£12.59	55mm	8 x 10mm	20	Nickel-plated brass
TH-100	£13.62	100mm	8 x 10mm	20	Nickel-plated brass
TH-140*	£14.33	140mm	10 x 12mm	20	Nickel-plated brass
TH-200	£16.58	200mm	8 x 10mm	20	Nickel-plated brass
TH-280	£19.96	280mm	8 x 10mm	20	Nickel-plated brass
NTH-100	£36.35	100mm	8 x 10mm	40	V4 A (1.4571)
NTH-140*	£38.09	140mm	10 x 12mm	40	V4 A (1.4571)
NTH-200	£35.84	200mm	8 x 10mm	40	V4 A (1.4571)
NTH-280	£38.70	280mm	8 x 10mm	40	V4 A (1.4571)
				designation code e.g. J	
		PROTECTIVE	COPPER SLEEVE F	OR SLEEVE SENSOR I	
THF	£5.94			For installation into	the pavement









HF/EKF/IKF/MWF DIP SLEEVES & INSTALLATION FLANGE FOR 6MM SLEEVE SENSORS

Model	List £	Length	Diameter	Max. Pressure (P/bar)	Material	
		Dip sleeves with	insertion, also suita	ble for empty enclosur	es of the KR series.	
THMs/50	£8.61	50mm	7 x 10mm	20	Nickel-plated brass	
THMs/100	£9.17	100mm	7 x 10mm	20	Nickel-plated brass	
THMs/150	£9.60	150mm	7 x 10mm	20	Nickel-plated brass	
THMs/200	£9.89	200mm	7 x 10mm	20	Nickel-plated brass	
THMs/250	£10.32	250mm	7 x 10mm	20	Nickel-plated brass	
THV/50	£19.92	50mm	6.3 x 9mm	40	Stainless steel	
THV/100	£20.78	100mm	6.3 x 9mm	40	Stainless steel	
THV/150	£23.22	150mm	6.3 x 9mm	40	Stainless steel	
THV/200	£24.79	200mm	6.3 x 9mm	40	Stainless steel	
THV/250	£26.23	250mm	6.3 x 9mm	40	Stainless steel	
THV/300	£29.10	300mm	6.3 x 9mm	40	Stainless steel	
THVH/50	£31.39	50mm	6.3 x 9mm	40	Stainless steel with 80mm neck pipe	
THVH/100	£32.82	100mm	6.3 x 9mm	40	Stainless steel with 80mm neck pipe	
THVH/150	£34.26	150mm	6.3 x 9mm	40	Stainless steel with 80mm neck pipe	
THVH/200	£35.70	200mm	6.3 x 9mm	40	Stainless steel with 80mm neck pipe	
THVH/250	£37.12	250mm	6.3 x 9mm	40	Stainless steel with 80mm neck pipe	

ACCESSORIES FOR HEATING TECHNOLOGY AND SENSOR APPLICATIONS

Model	List £	Equipment
PROTECTOR01	£33.11	Protector ball/sun/rain protection, stainless steel, 150 x 90 x 47mm
FRAME	£3.74	Cover frame
KR 80.1	£17.16	Empty enclosure with 2 pole terminal
MUD-A	£7.03	Adaptor G1/2" for pressure measuring transducer MUD









ACCESSORIES FOR HEATING TECHNOLOGY/AIR CONDITIONING TECHNOLOGY/INDUSTRIAL TECHNOLOGY AND SENSORS

Model	List £	Description
JZ-04	£8.71	Capillary tube for air duct installation purposes including 30cm protective hose. (For use with frost protection thermostats JTF and capillary controllers JMT, WR and JET).
JZ-05/06K	£8.19	1 set of installation clips for frost protection thermostat JTF (6 pieces). Made of plastic (max. 145°C).
JZ-05/6M	£8.81	1 set of installation clips for frost protection thermostat JTF (6 pieces). Made of metal.
JZ-06/1	£6.45	Set with plastic duct connections (angle, 2x90°, 2 extensions (90mm), 4 self-tapping screws, 2m hose (dia. 6mm))for differential pressure switches JDW and JDL and pressure measuring transducer DF.
JZ-07	£3.59	Installation bracket for frost protection thermostat JTF.
JZ-08	£13.72	Spare tag for air flow sensing relay JSL.
JZ-09	£13.72	Spare paddle (4 pieces) for flow monitor JSF (sizes from 1" to 8").
JZ-10	£1.28	Installation bracket for JDL-109/-113 and JDW-3/5/-10 including 6 screws.
JZ-14	£1.28	Sealing set for frost protection thermostats JTF-125.
JZ-17	£4.39	Adapter plate for Berlin 3000 design housing (hardwired)
JZ-18	£4.39	Snap-on adaptor plate for Berlin 3000 design housing (radio controller can be removed).
JZ-20-1	£14.64	Wall bracket for duct hygrostat HI, for duct measuring transducers TF,FF, FTF, FS-K3 and air flow monitor JSL-20K.
FS-HI	£8.44	Sensor protection for duct hygrostat HI.
PAP-01-14	£3.79	Adaptor plate for Pikolo design housing (PTR01, PETA, PETR, PHY, PTF and RF).
WP-01	£3.02	Heat conduction paste (2ml).
ATRS-1	£1.33	Temperature fixing set ATR-83.0





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TEMPERATURE AND PRESSURE SENSED CONDENSER FAN SPEED CONTROLS

Model	List £	Set Point Control	Proportional Band	Run Currents (amps)	IP Protection Class	Variable Speed	Hard Start
BJ2-2T	£76.15	26ºC47ºC	±1.5°C± 7°C	2.0	44	According to sensed temperature	3 secs
BJ6/2T	£145.50	20°C60°C	± 6°C (Fixed)	6.0	00	According to sensed temperature	3 secs
BJ10/2T	£126.47	20°C60°C	± 6°C (Fixed)	10.0	0	According to sensed temperature	3 secs
BJ6/2P	£292.37	7-15 bar L models 12-20 bar H models	1-3 bar	6.0	55	According to sensed pressure	5 secs
BJ10/2P	£315.49	7-15 bar L models 12-20 bar H models	1-3 bar	10.0	00	According to sensed pressure	5 secs
BJ12/2P	£405.24	7-15 bar L models 12-20 bar H models	1-3 bar	12.0	55	According to sensed pressure	5 secs

SINGLE PHASE MOTORS

Model	Features
BJ2-2T	Temperature sensors for easy retrofit, infinitely variable speed control, adjustable set point, minimum fan speed & proportional band, auto switching from heating to cooling on heat pumps and HP select.
BJ6/2T	Temperature sensors for easy retrofit, infinitely variable speed control, adjustable set point & minimum fan speed and fixed proportional band.
BJ10/2T	
BJ6/2P	
BJ10/2P	Pressure sensors requiring no capillary connection, infinitely variable speed control, adjustable set point, minimum fan speed & proportional band and minimum speed or fan cut off mode.
BJ12/2P	













MANUAL SPEED CONTROL FOR FANS AND PUMPS

SINGLE PHASE MOTORS

Model	List £	Material	Maximum/Manual Switch	Run Currents (amps)	IP Protection Class	Variable Speed	Isolation Switch
FMP3	£125.10	Aluminium facia/PVC base	Switch to maximum to provide full speed	3.0	40	Petentiometer on facia	On/off switch
FMP6	£138.71	Aluminium facia/PVC base	Switch to maximum to provide full speed	6.0	40	Petentiometer on facia	On/off switch
FMP10	£242.06	Steel	Not on this model	10.0	54	Petentiometer on facia	On/off switch
BP2	£67.24	Aluminium facia/PVC base	Switch to maximum to provide full speed	2.0	40	Petentiometer on front facia	On/off switch
BP3	£100.63	Aluminium facia/PVC base	Switch to maximum to provide full speed	3.0	40	Petentiometer on front facia	On/off switch
BP6	£116.95	Aluminium facia/PVC base	Switch to maximum to provide full speed	6.0	40	Petentiometer on front facia	On/off switch
BP8	£214.18	Plastic	Not on this model	8.0	55	Petentiometer on front facia	On/off switch
BP20	£441.05	Metal case	Not on this model	17.0	54	Petentiometer on front facia	On/off switch

Model	Features
FMP3	
FMP6	Infinitely variable speed control, motor protection, neon indicator, maximum speed/manual control switch and hard start.
FMP10	
BP2	
BP3	
BP6	Infinitely variable speed control, illuminated on/off switch, maximum speed/manual control switch and hard start.
BP8	
BP20	









SINGLE PHASE MOTORS

Model	List £	Material	Maximum/Manual Switch	Run Currents (amps)	IP Protection Class	Variable Speed	Isolation Switch
DP1.5	£48.96	PVC	Not available	1.5	40	Petentiometer on front facia	Pent. On front facia
DP3	£88.39	Painted aluminium	Not available	3.0	40	Petentiometer on front	On/off switch
DP6	£104.71	Painted aluminium	Not available	6.0	40	Petentiometer on front	On/off switch
TP1	£145.96	ABS	Not available	1.0	40	Five position rotary	On/off switch
TP3	£174.51	PVC	Not available	3.0	55	Five position rotary switch	On rotary switch
TP5	£228.46	PVC	Not available	5.0	55	Five position rotary switch	On rotary switch
TP7	£333.16	PVC	Not available	7.5	55	Five position rotary switch	On rotary switch
TP13	£598.12	PVC	Not available	13.0	55	Five position rotary switch	On rotary switch

Model	Features
DP1.5	Infinitely variable speed control, on/off switch off knob.
DP3	Infinitely variable speed control, on/off switch.
DP6	
TP1	Five positions at selected voltages, on/off switch,
TP3	
TP5	Five positions at selected voltages, on rotary switch,
TP7	Five positions at selected voltages, of fotally switch,
TP13	









AUTOMATIC SPEED CONTROL FOR SINGLE PHASE FANS AND PUMPS

USING DEDICATED SENSORS OR PROCESS CONTROL SIGNAL OUTPUTS

Model	List £	Material	Minimum Speed	Run Currents (amps)	IP Protection Class	Variable Speed	Max. Speed
CJ3	£134.63	PVC	Potentiometer on PCB	3.0	55	Proportional to input signal	As detected by sensor
CJ6	£140.07	PVC	Potentiometer on PCB	6.0	55	Proportional to input signal	As detected by sensor
CJ8	£168.63	PVC	Potentiometer on PCB	8.0	55	Proportional to input signal	As detected by sensor

Model	Features				
CJ3	Variable motor speed control via external process control signal, signal 0-10v d.c, 4-20mA, 0-20v phase cut, hard start, adjustable minimum ar maximum speeds, printed circuit board or in enclosure to IP55.				
CJ6					
CJ8					







	USING DEDICATED SENSORS OR PROCESS CONTROL SIGNAL OUTPUT	٢S
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Model	List £	Material	Minimum Speed	Run Currents (amps)	IP Protection Class	Variable Speed	Max. Speed
BJ2	£83.00	ABS	Potentiometer on PCB	2.0	55	Variable on set temperature	As detected by sensor
BJ6	£116.62	PVC	Potentiometer on PCB	6.0	55	Variable on set temperature	As detected by sensor
BJ8	£301.44	PVC	Potentiometer on PCB	8.0	55	Variable on set temperature	As detected by sensor
FJ2	£90.35	ABS	Potentiometer on PCB	2.0	55	Proportional to input signal	As detected by sensor

Model	Features
BJ2	Infinitely variable speed control, external set point temperature adjustment, adjustable minimum speed setting, dedicated temperature sensors, on/off
BJ6	switch and hard start.
BJ8	Switch and hard start.
	Infinitely variable speed control, adjustable maximum and minimum speeds, switch selectable heating or cooling mode, fixed proportional band, cut off
FJ2	mode and adjustable set point.









THREE PHASE FAN AND PUMP MOTOR SPEED CONTROL BY FREQUENCY INVERTER

Environmental List £ **Input Supply** Model **Overload Capacity Output Frequency Ambient Temperature** Protection 220-240 ± 10% Single 601 POA 150% for 30 seconds 0-240 Hz IP20 0-40°C up to 1000m without derating phase 220-240 ± 10% Single POA phase, 380-460V ± 10% 0-480 Hz **IP20** 0-45°C up to 1000m without derating 605 150% for 60 seconds three phase 380-460V ± 10% 3 phase 0-120/240/480 Hz 0-50°C (0-40 with top cover fitted) to POA 110% for 10 seconds IP20 or IP21 NEMA 584S 1000m ASL without derating supply (programmeable)

DESIGNED TO MEET QUADRATIC "FAN LAW" TORQUE RATINGS

Model	Features					
601	Three phase output from single phase supply, integral digital setup and display, 4 preset speeds or automatic set point 0-10v d.c,4-20mA, easy storage of set up parameters and panel or din rail mounted.					
605	Three phase output from single or three phase supplies, easy to use menu structure programming, 32 character multi-lingual display, 8 preset speeds or automatic set point 0-10v d.c,4-20mA, process P.I.D control, wide viewing angle back lit L.C.D and L.E.D status indication.					
584S	Three phase supply - three phase output, easy to use menu structure programming, 32 character multi-lingual display, 8 preset speeds or automatic set point 0-10v d.c, 4-20mA, analogue and digital I/O functions, wide viewing angle back lit L.C.D, L.E.D status indication and 4 skip frequencies.					









