

# Universal flush-mounted controllers with timer control

alre



- universal temperature controller (HTRRUu-210.021) – Room temperature controller with optional remote sensor – Room temperature controller with floor monitoring or floor temperature controller
- universal climate controller (KTRRUu-217.456) – Climate controller for 2 and 4-pipe systems, heating controllers or cooling controllers with and without fans
- intuitive, simple operation
- timer control for cost optimization
- illuminated, graphics-capable display
- unrestricted wiring of pluggable terminal screws for easy mounting
- matches all current switch ranges



## General functions, highlights and benefits for you

- Automatic adjustment to standard / daylight savings time
- Learning function
- Correction of measured values
- Configurable display content
- Up to 8 different languages can be set via menu (D, GB, F, RUS, NL, E, PL, CZ)
- OFF switch with frost protection
- Key lock
- Valve protection function
- Holiday and party function
- Configurable control method (PI-PWM or 2-point control)
- Choice of constant display illumination
- Power reserve
- "Heating operation" or "Cooling operation" indicator
- High-quality, easy-to-understand operating instructions

## KTRRUu-217.456

- Heating controller function with Decrease output (master controller)
- Suitable for valve actuators normally open/closed
- Analogue output 0 ... 10 V for fan control
- Selectable input functions: ext. temperature sensor, ext. "ECO" contact, ext. "OFF" contact, ext. "Heating/Cooling Changeover" contact, flow sensor, dew point sensor
- Selectable output functions: Heating, heating/cooling, cooling, "ECO", "OFF"
- Operational mode of inputs and outputs is configurable

## HTRRUu-210.021

- Choice of four different external sensors thus also ideal for retrofitting
- VDE mark
- Limit setting for floor temperature
- Suitable for electrical and hot water heating systems
- Load adjustment for optimum control

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Equipment	Type of universal heating controller	Item No.	Euro* / PG	Type of universal climate controller	Item No.	Euro* / PG
Cover 50 x 50 mm <b>pure white</b> , (similar to RAL 9010), <b>glossy, alre "Berlin" frame</b>	HTRRUu-210.021#21	UA060000	154,80 € / I	KTRRUu-217.456#21	UA220000	191,70 € / I
Cover 50 x 50 mm <b>pure white</b> , (similar to RAL 9010), <b>glossy</b> , without frame	HTRRUu-210.021#07	UA060001	151,90 € / I	KTRRUu-217.456#07	UA220002	188,80 € / I
Cover 50 x 50 mm <b>pearl white</b> , (similar to RAL 1013), <b>glossy</b> , without frame	HTRRUu-210.021#09	UA060002	151,90 € / I	KTRRUu-217.456#09	UA220003	188,80 € / I
Cover 50 x 50 mm <b>standard white</b> , (similar to RAL 9016), <b>glossy</b> , without frame	HTRRUu-210.021#27	UA060003	151,90 € / I	KTRRUu-217.456#27	UA220004	188,80 € / I
Cover 55 x 55 mm <b>pure white</b> , (similar to RAL 9010), <b>glossy</b> , without frame	HTRRUu-210.021#55	UA060004	153,10 € / I	KTRRUu-217.456#55	UA220005	190,10 € / I
Cover 55 x 55 mm <b>pearl white</b> , (similar to RAL 1013), <b>glossy</b> , without frame	HTRRUu-210.021#57	UA060005	153,10 € / I	KTRRUu-217.456#57	UA220006	190,10 € / I
Cover 55 x 55 mm <b>standard white</b> , (similar to RAL 9016), <b>glossy</b> , without frame	HTRRUu-210.021#59	UA060014	153,10 € / I	KTRRUu-217.456#59	UA220008	190,10 € / I
Cover suitable BUSCH-JAEGER Reflex SI / SI Linear, (similar to RAL 9010), <b>glossy</b> , without frame	HTRRUu-210.021#28	UA060006	153,10 € / I	KTRRUu-217.456#28	UA220007	190,10 € / I
Cover 55 x 55 mm <b>pure white</b> , (similar to RAL 9010), <b>matte</b> , without frame	HTRRUu-210.021#56	UA060020	153,10 € / I	KTRRUu-217.456#56	UA220009	190,10 € / I
<b>Like HTRRUu-210.021#21 including external floor sensor (HF-8/4-K2)</b>	HTRRUu-210.021#21/7	UA060011	171,70 € / I	-	-	-
External floor sensor incl. 4 m cable (sensor compliant with DIN 44574), Ø 7,7 mm	HF-8 / 4-K2	G8000370	17,00 € / II	-	-	-

\*) Prices valid from 01.01.2013

## Examples for adaptation

Manufacturer	Range	Colour RAL 9010 / 9016 (Surface finish)*	"55 x 55" version can be integrated without intermediate frame	"50 x 50" version requires intermediate frame (see no. below)
<b>BERKER</b>	S.1	polar white (glossy)	✓ HTRRUu-210.021#55 / KTRRUu-217.456#55	1109 90 89
<b>BERKER</b>	S.1 / B.1	polar white (matt)	✓ HTRRUu-210.021#56 / KTRRUu-217.456#56	1109 19 19
<b>BERKER</b>	K.1	polar white (glossy)	No	1108 71 09
<b>BUSCH-JAEGER</b>	Reflex SI / SI Linear	alpine white (glossy)	✓ HTRRUu-210.021#28 / KTRRUu-217.456#28	1746-214-101
<b>BUSCH-JAEGER</b>	solo / future / future linear	studio white (RAL 9016 glossy)	No	1746/10-84
<b>GIRA (System 55)</b>	Standard / E 2	pure white (glossy)	✓ HTRRUu-210.021#55 / KTRRUu-217.456#55	0282 03
<b>GIRA (System 55)</b>	Standard / E 2	pure white (silk matte)	✓ HTRRUu-210.021#56 / KTRRUu-217.456#56	0282 27
<b>GIRA (System 55)</b>	E 22	pure white (glossy)	✓ HTRRUu-210.021#55 / KTRRUu-217.456#55	0282 03
<b>GIRA</b>	Flächenschalter	pure white (glossy)	No	0282 112
<b>JUNG</b>	CD 500 / CD plus	alpine white (glossy)	No	CD 590 Z WW
<b>JUNG</b>	A 500 / AS 500 / A plus	alpine white (glossy)	✓ HTRRUu-210.021#55 / KTRRUu-217.456#55	A 590 Z WW
<b>JUNG</b>	LS 990	alpine white (glossy)	No	LS 961 Z WW
<b>MERTEN (System M)</b>	M-Smart, Arc, Plan, Star	polar white (glossy)	✓ HTRRUu-210.021#55 / KTRRUu-217.456#55	5185 19
<b>MERTEN (System Basis)</b>	1-M / Atelier-M	polar white (glossy)	✓ HTRRUu-210.021#55 / KTRRUu-217.456#55	5185 19
<b>PEHA</b>	Standard	pure white (glossy)	No	80.670.02 ZV
<b>PEHA</b>	Dialog	pure white (glossy)	No	95.670.02 ZV
<b>SIEMENS - DELTA</b>	i-system: line, vita, miro	titanium white (glossy)	✓ HTRRUu-210.021#55 / KTRRUu-217.456#55	Information upon request

See our product catalogue for a complete adaptation list of the most popular light switch ranges.

NOTE: Most light switch ranges are finished in colours "similar to RAL 2010", which switch manufacturers use different names to describe. Coloured or glass/aluminium frames are also typically combined with white switches or sockets, meaning that controllers with white covers can be integrated with these frames as well. Exact use should be checked on an individual basis. The frames have different surface finishes (matte, glossy) and for aesthetic reasons, the cover of the controller should have the same surface finish. We accept no liability for variations in colour and surface finish or for accuracy of fit. The knob of the controller always has a "gloss" finish.

"50 x 50" controllers: Casing covers for the 50 x 50 controller have edge dimensions of 50 x 50 mm. This means they can be integrated in almost all light switch ranges using a 50 x 50 mm intermediate frame in accordance with DIN 49075. 50 x 50 mm intermediate frames should be ordered from the light switch manufacturer or from a wholesaler. Order numbers for the intermediate frames to fit different switch ranges are listed in the "Only adaption with "50 x 50" cover set" column above.

"55 x 55" controllers: Casing covers for the 55 x 55 controllers have edge dimensions of 55 x 55 mm. Many light switch ranges have internal dimensions of 55 x 55 mm. This means that the 55 x 55 controllers can be integrated directly into these light switch frames without using an intermediate frame. The last column "Adaption possible using "55 x 55" cover set" indicates whether the 55 x 55 controller fits into the different light switch ranges (✓).

All information regarding switch manufacturers' product lines and item numbers was last updated in 2013.

--> When installing devices into multi frames, always assemble the temperature controllers at the lowermost position! (Mountable when used as a floor thermostat anywhere)

\*) No liability is assumed for the information provided.