BUILDING AUTOMATION CONTROL TECHNOLOGY SENSOR TECHNOLOGY





KTRBUu. The BACnet Building Automation System.

ALRE BUILDING AUTOMATION ALWAYS PERFECT INDOOR CLIMATE.

With our BACnet room controller – the only BACnet flush-mounted controller on the market – you control, regulate, monitor and optimise all central building functions such as heating, cooling or ventilation. The comfort in the building increases, the energy and operating costs decrease. According to predefined scenarios, all sensors, actuators, operating elements and other technical components in the building are networked with each other. This ensures that all components work together intelligently

alre building automation: BACnet controller for efficient building management systems.

APPLICATION **EXAMPLES:**

- + Hot water underfloor heating
- + Electric floor heating
- + Ceiling cassettes
- + Underfloor convectors
- + Heating and cooling ceilings
- + Duct devices



OVERVIEW

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BACNET ROOM CONTROLLER, FLUSH-MOUNTED KTRBUU217.456#21



BACNET ROOM CONTROLLER, FLUSH-MOUNTED KTRBUU217.456#07



BACNET ROOM CONTROLLER, FLUSH-MOUNTED KTRBUU217.456#56



BACNET ROOM CONTROLLER, FLUSH-MOUNTED KTRBUU217.456#28



MANAGING THE FUTURE **SAFELY – SUSTAINABLY AND EFFICIENTLY**

Industry 4.0, cloud computing, blockchain, smart living – digitalisation is THE topic of today. Building automation is also developing at a rapid pace. The latest technologies, networked systems and constantly increasing requirements call for intelligent, flexible and convenient solutions.

In addition to convenience and high levels of functionality, smart systems also have a positive impact on operating costs. Modern building automation increases the value of properties and is therefore becoming increasingly important for rentals and sales.

With our new BACnet climate controller, we have developed an innovative device especially for the requirements of individual room control in building automation.

COMMUNICATION VIA BACNET MS/TP

In order to use the networked functions, all building automation systems must be interconnected and open. Communication takes place via an open interface such as BACnet, for example.

The BACnet room controller (KTRBUu 217.456) communicates via BACnet according to DIN EN ISO 16484-5 with the BACnet MS/TP network protocol. This makes it compatible with all common building automation systems. It corresponds to the BACnet profile 'B-AAC' (BACnet Advanced Application Controller) and is therefore much more than a simple setpoint generator.

In contrast to other fieldbus interfaces such as LON or KNX, the BACnet interface does not require an additional gateway for implementation and communication with the management level. This saves costs because service technicians with different qualifications are not required to commission the system. A further cost saving compared to distributed solutions is achieved by combining the room control unit and individual room controller in one device.



The BACnet individual room controller is therefore extremely versatile – in residential, office and business premises, in hotels, schools, hospitals and more.

The BACnet room controller has been awarded the BTL certificate for compliance with the BACnet standard ISO 16484-5, which has been proven by means of a BTL compliance test.

YOUR **ADVANTAGES** FOR ALL FIELDS OF APPLICATION:

- + Individual room controller with controller function (B-AAC)
- + Flush-mounted integration in all common switch ranges
 (50 mm/55 mm/60 mm)
- + Selectable application for various user applications
- + Cost benefit for investment and commissioning
- + No additional gateways required (BACnet MS/TP)
- + Reduction of installation and operating costs

BUILDING AUTOMATION



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BACNET INDIVIDUAL ROOM CONTROLLER **CONNECTION OPTIONS**

The BACnet room controller with graphic display is suitable for time-dependent heating and cooling operation in 2 or 4-pipe systems.

The device has two inputs and three outputs. Two of the outputs switch relays, each of which can address up to 5 actuators. The third output is analogue (0-10 V) and can be used, for example, for EC fan control.

One of the two inputs is used for BACnet communication. The other can be configured to connect sensors, for example for temperature or dew point. Windows or presence contacts can be connected via BACnet.

TECHNICAL HIGHLIGHTS AND FEATURES

- + Internal temperature sensor
- + Connectible external dew point sensor
- + Connectible external dew point sensor
- + MS/TP interface
- + 0-10 V EC fan coil
- + I/O mix integrated in device
- + 6-way valve

* depending on existing application



BACNET INDIVIDUAL ROOM CONTROLLER/ HEATING AND COOLING CEILING APPLICATION EXAMPLE

Planners prefer heating and cooling ceilings for comfortable air conditioning in buildings because it prevents draughts or disturbing noises. With its pre-configured system diagrams, the alre BACnet individual room controller (KTRBUu 217.456) supports the most common air conditioning applications.

The 'cooling and heating ceiling in 4-pipe systems' variant controls heating and cooling valves, monitors the dew point and interrupts cooling operation if condensation begins to form.

The control range of the BACnet individual room controller is determined by the building management system. If this fails, the controller also functions independently and maintains control operation in the room.



FLOOR HEATING SYSTEMS

WIDE RANGE OF APPLICATIONS





SUITABLE FOR ALL Conventional Switch Ranges

The alre BACnet individual room controller is mounted in a flush-mounted socket. The housing fits exactly into design frames of sizes 50x50 mm, 55x55 mm and 60x60 mm from surface switch ranges of well-known manufacturers such as Berker, Busch-Jaeger, Gira, Jung, Merten, Peha, Hager or Feller (CH).



Check out the product video now!





KTRBUu 217.456 in BERKER S.1



KTRBUu 217.456 in BUSCH-JAEGER balance SI



KTRBUu 217.456 in GIRA Standard 55



KTRBUu 217.456 in MERTEN 1-M



KTRBUu 217.456 in JUNG AS 500

INTEGRATION EXAMPLES

of the BACnet individual room controller in switch ranges from various manufacturers.

All variants also fit in multiple frames from all wellknown manufacturers. Also available in special colours anthracite and aluminium on request.

BACNET ROOM CONTROLLER APPLICATION **OVERVIEW**

2 = 2-pipe system 4 = 4-pipe system RA = Radiator FB = Floor temperature control KD = Ceiling temperature control UK = Underfloor convector HR = Heating coil KR = Cooling coil		SYSTEMS					EXT. SENSORS				ACTUATORS									
		ipe system	ipe system	iator	or temperature control	ing temperature control	erfloor convector	ting coil	ling coil	Dew point sensor	Temperature limiter	ply air temperature	m air temperature	or screed temperature	0 to 10 V	0 to 10 V	ting valve	ling valve	ting/cooling valve	ay ball valve 0 to10 V
ТҮРЕ	APPLICATION	2-p	4-p	Rad	Floc	Ceil	Und	Неа	Coo	TP [18	Sup	Roo	Floc	Fan	VAV	Неа	Coo	Неа	6-w
2-pipe system underfloor heating with screed temperature sensor	2FB001	•			•									•			•			
2-pipe system underfloor heating with limiter	2FB002	•			•						•						•			
2-pipe system coolingcheating ceiling with dew point monitor	2KD001	•				•				•									•	
2-pipe system heating / cooling coil with fan and supply air temperature	2HRKR001	•						•	•			•			•				•	
2-pipe system with radiator with external room temperature sensor	2RA001	•		•									•				•			
4-pipe system radiator (heating), cooling ceiling with dew point monitor	4RAKD001		•	•		•				•							•	•		
4-pipe system radiator, cooling coil with fan and supply air temperature limitation*	4RAKR001		•	•					•		•				•		•	•		
2-pipe system underfloor convector with room temperature sensor and fan	2UK001	•					•						•		•				•	
4-pipe system floor temperature control with temperature limiter	4FB001		•		•						•						•	•		
4-pipe system cooling/heating ceiling with dew point monitor and 6-way ball valve	4KD001		•			•				•										•
4-pipe system cooling / heating ceiling with dew point monitor and VAV	4KD002		•			•				•						•	•	•		
4-pipe system cooling/heating ceiling with dew point monitor	4KD003		•			•				•							•	•		
4-pipe system heating and cooling coil with fan and supply air temperature	4HRKR001		•					•	•			•			•		•	•		
4-pipe system underfloor convector with dew point monitor and fan	4UK001		•				٠			•					•		•	•		

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BACNET ROOM CONTROLLER KTRBUU

FLUSH-MOUNTED INSTALLATION - DESIGN BERLIN UP

		TECHNICAL DATA		APPLICATION
23.0 100000000000000000000000000000000000	P°C	Design: Housing material: Operating voltage: Ambient temperature: Storage temperature: Permissible atmospheric humidity: Electrical connection:	Berlin UP PC, PMMA, ABS plastic 230 V AC, 50 Hz $040 \circ C$ $-20+70 \circ C$ max. 95% rel. humidity, non-condensing pluggable screw terminals Mains voltage side $0.75-2.5 \text{ mm}^2$ Low voltage side $0.08-15 \text{ mm}^2$	The BACnet individual room controller with graphic display was specially developed for time-dependent heating and cooling operation in 2- or 4-pipe systems. The controller can be used in a wide range of applications, such as hotels, residential, office and business premises as well as hospitals and schools. The communication takes place via BACnet according to DIN EN ISO 16484-5 with the BACnet MS /TP network
23.0	4.P	Mounting/attachment: Protection rating:	In flush-mounted socket – can be adapted to fit virtually any switch range (deep flush-mounted socket recommended) see adaptation list on page 20 IP30	protocol. The room controller is therefore compatible with all common building automation systems. The controller corresponds to the BACnet profile 'B-AAC' (BACnet Advanced Application Controller).
L		Protection class: Safety and EMC:	II according to DIN EN 60730	The predefined applications cover a wide range of applications for room
		Max. switching voltage:	230 V AC. 50 Hz	temperature control in room automation.
62-	and a second	Min. switching voltage:	230 V AC, 50 Hz	·
		Switching power:	690 W	Special colours as well as the colours
Triston De Tori	05	Max. power consumption:	approx. 1 W (2.2 VA)	anthracite and aluminium are available
23.0	TIT	Max. switching current:	per 3 (0.5) A (max. 5 valve actuators per output)	for projects upon request.
1 -		Switching element:	2 relays	
		Switching contact:	2 NO contacts	
		Output signal:	Switching heating, cooling, heating/cooling, analogue 0 to 10 V (5 mA) to control a speed-controlled fan	
		Sensor:	Internal NTC, optional external 'Sensor 2' * (NTC 47k), dew point sensor	
		Control range:	540 °C	
		Setting range:	standard setting range for heating (530 °C), second setting range for cooling (1840 °C)	
		Hysteresis:	< 1 K	
		Display type:	illuminated graphical display	
		Pipe system compatibility:	2-pipe and 4-pipe	
TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRA	M EURO/PG
KTRBUu217.456#21	UA230000	Surface finish: Glossy Housing colour: pure white, sii Scope of delivery: controller, c pure white (like RAL 9010), glos 'Berlin'	milar to RAL 9010 SELV $ $ cover 50x50 mm, ssy, alre frame RS485 \bigcirc D-1 \bigcirc	

* Depending on the selected system scheme, a menu setting can be used to select whether control should be based on the internal or external sensor. In the intermediate positions, if both sensors are used, a weighting is applied to the internal room sensor and the external temperature sensor. The weighting allows for compensation of different structural conditions such as large window areas or cardinal directions. For very slow controlled systems, it is recommended to assign a higher weighting to the temperature sensor than to the internal room sensor.

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FLUSH-MOUNTED INSTALLATION - DESIGN BERLIN UP

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
KTRBUu217.456#07	UA230002	Like KTRBUu217.456#21 but scope of delivery as follows: Controller, 50x50 mm cover pure white (similar to RAL 9010), glossy, without frame		
KTRBUu217.456#09	UA230003	like KTRRUu217.456#21 but with delivery scope: controller, 50x50 mm cover pearl white (like RAL 1013), glossy, without frame		
KTRBUu217.456#27	UA230004	Like KTRBUu217.456#21 but scope of delivery as follows: Controller, 50x50 mm cover traffic / studio white (like RAL 9016), glossy, without frame		
KTRBUu217.456#28	UA230007	Like KTRBUu217.456 but scope of delivery as follows: controller, cover suitable for BUSCH-JAEGER Reflex SI/SI Linear pure white (like RAL 9010), glossy, without frame		
KTRBUu217.456#55	UA230005	Like KTRBUu217.456#21 but scope of delivery as follows: controller, 55x55 mm cover pure white (like RAL 9010), glossy , without frame		
KTRBUu217.456#56	UA230009	Like KTRBUu217.456#21 but scope of delivery as follows: Controller, cover 55x55 mm pure white (similar to RAL 9010), matt without frame		
KTRBUu217.456#57	UA230006	Like KTRBUu217.456#21 but scope of delivery as follows: controller, 55x55 mm cover pearl white (like RAL 1013), glossy , without frame		
KTRBUu217.456#59	UA230008	Like KTRBUu217.456#21 but scope of delivery as follows: controller, 55x55 mm cover traffic / studio white (like RAL 9016), glossy, without frame		

FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP

ACCESSORIES	ITEM NO.	FEATURES	EURO/PG
JZ-090.900	VV000025	Design:Berlin Surface finish: glossy Housing colour: pure white, like RAL 9010 Housing material: PC plastic General features: alre frame 'Berlin' (neutral) for all flush-mounted controllers with cover 50x50 mm	
JZ-090.100	VV000048	Features: like JZ-090.900, but for all flush-mounted controllers with 55x55 mm cover	
JZ-090.910	VV000010	Design: Berlin Surface finish: glossy Housing colour: pearl white, like RAL 1013 Housing material: PC plastic General features: alre frame 'Berlin' (neutral) for all flush-mounted controllers with cover 50x50 mm	
TPS 1	G8000299	Dew point sensor to detect and report the dew point (see also chapter air conditioning technology) Mounting / attachment: using clips on cooling ceiling capillary pipe Use: drywall cooling ceiling (plasterboard) with hung up capillary tube mat, metal cooling ceiling with integrated capillary pipe system Sensor wire extendible up to: 50 m with 2x0.5 mm ² Scope of delivery: sensor, 2 clips for cooling pad	
TPS 2	G8000300	Dew point sensor to detect and report the dew point (see also chapter air conditioning technology) Mounting / attachment: using clips on cooling ceiling capillary pipe or cable ties on the pipe Use: Pipe systems transporting cold water, plaster cooling ceiling with capillary tube system Sensor wire extendible up to: 50 m with 2x0.5 mm ² Scope of delivery: Sensor, 2 clips for cooling pad, 2 cable ties	
TPS 3	SN120000	Dew point sensor to detect and report the dew point (see also chapter air conditioning technology) Mounting / attachment: attach to pipe by means of cable ties Use: piped cold-water systems Sensor wire extendible up to: 50 m with 2x0.5 mm ² Scope of delivery: Sensor, 2 cable ties	
BTF2-C47-0000	SA140014	Surface-mounted 'ultra-thin' room temperature sensor for temperature measurement in residential and business premises (see also chapter air conditioning technology) Mounting / attachment: surface/wall mounting (4-hole assembly on flush-mounted socket) Housing colour: pure white, like RAL 9010, glossy Housing material: ABS plastic Ambient temperature: -10 to +50 °C Admissible humidity: max. 95% rel. humidity, non-condensing Protection rating: IP30 Protection class: III Electrical connection: screw-type terminals 0.33 mm ² to 1.5 mm ²	
FUFC 47-0000	SN090198	Flush-mounted room temperature sensor for temperature measurement in residential and business premises (see also chapter air conditioning technology) Mounting / attachment: in flush-mounted box - in almost all Surface switch ranges 50x50 mm adaptable Housing colour: pure white, like RAL 9010, glossy Housing material: PC plastic Ambient temperature: -10 to +50 °C Admissible humidity: max. 95% rel. humidity, non-condensing Protection rating: IP30 Protection class: III Electrical connection: screw-type terminals 0.5 mm ² to 1.5 mm ²	

FLUSH-MOUNTED INSTALLATION - DESIGN BERLIN UP

ACCESSORIES	ITEM NO.	FEATURES	EURO/PG
AF-2	G9040380	Temperature sensor for temperature measurement outdoors and in humid areas, special protection against dust and humidity (see also chapter sensor technology) Mounting / attachment: surface / wall mounting Housing colour: pure white, like RAL 9010 Housing material: PA plastic (30% GF reinforced) Ambient temperature: -30 to +70 °C Admissible humidity: max. 95% rel. humidity, non-condensing Protection rating: IP65 Protection class: III Electrical connection: screw-type terminals 0.14 mm ² to 2.5 mm ²	
KF-2	G9031446	Cable temperature sensor for temperature measurement / temperature limiting of the floor or supply air (see also chapter sensor technology) Mounting / attachment: In immersion sleeve, protection coil, on pipe, etc. Pipe material/length: PE, 1.5 m Sensor sleeve material: V4A (1.4571) Ambient temperature: -35 to +100 °C Admissible humidity: max. 95% rel. humidity, non-condensing Protection rating: IP 67 Protection class: III Electrical connection: Safety extra low voltage only max. 30 V AC / 42 V DC	
ZB00A-010.100	H9100010	Electro-thermal valve actuator (see also Heating / Air Conditioning Technology chapter) Mounting / attachment: M 30x1.5 Housing colour: pure white, like RAL 9010 Housing material: PC plastic, GF (20%) Operating voltage: 230 V~, 50 Hz max. power consumption: 70 W max. starting current: approx. 0.3 A Ambient temperature: 050 °C Storage temperature: -20+70 °C Admissible humidity: max. 95% rel. humidity, non-condensing Protection rating: IP42 Protection class: II Average power consumption: approx. 3 W Opening / closing time: approx. 4 min Nominal stroke: 3 mm Function type: normally closed Nominal closing force: 90 N Connecting cable: 0.8 m/2x0.5 mm ²	
ZB00A-010.185	G8990010	Electrothermal valve actuator for fully automatic hydraulic comparison Mounting / attachment: M 30x1.5 Housing colour: grey-orange Housing material: PA6 plastic Operating voltage: 230 V~, 50 Hz max. power consumption: 30 W max. starting current: approx. 0.13 A Ambient temperature: 050 °C Storage temperature: -25+60 °C Admissible humidity: max. 95% rel. humidity, non-condensing Protection rating: IP42 Protection class: II Average power consumption: 1.7 W Opening / closing time: approx. 3 min Nominal stroke: 3.5 mm Function type: normally closed Nominal closing force: 110 N Connecting cable: 1 m/2x0.34 mm ²	

FLUSH-MOUNTED INSTALLATION - DESIGN BERLIN UP

ILLUSTRATIONS

KTRBUu with alre frame 'Berlin'



Pluggable screw-type terminals



KTRBUu with alre frame 'Berlin'



ALRE BACNET INDIVIDUAL ROOM CONTROLLER ADAPTATION KTRBUU217.456 – FLUSH-MOUNTED

MANUFACTURER	RANGE	COLOUR RAL 9010	ADAPTATION	ADAPTATION
BERKER	S.1	polar white (matt)	KTRBUu217.456#56	not required
BERKER	S.1	polar white (glossy)	KTRBUu217.456#55	not required
BERKER	Arsys	polar white (glossy)		KTRBUu217.456#07 + 1108 01 69
BERKER	B.3	aluminium / polar white (matt)	KTRBUu217.456#56	not required
BERKER	B.3	aluminium / polar white (glossy)	KTRBUu217.456#55	not required
BERKER	B.7	glass / polar white (matt)	KTRBUu217.456#56	not required
BERKER	B.7	glass / polar white (glossy)	KTRBUu217.456#55	not required
BERKER	K.1	polar white (glossy)		KTRBUu217.456#07 + 1108 71 09
BUSCH-JAEGER	Reflex SI/SI Linear	alpine white (glossy)	KTRBUu217.456#28	not required
BUSCH-JAEGER	Busch-balance SI	alpine white (glossy)	KTRBUu217.456#55	not required
BUSCH-JAEGER	impuls	alpine white (glossy)		KTRBUu217.456#07 + 1746/10-74
BUSCH-JAEGER	solo/future/axcent etc.	studio white - see RAL 9016 below		
Elso	Joy	pure white (glossy)	KTRBUu217.456#55	not required
Elso	Fashion / Riva / Scala	pure white (glossy)		KTRBUu217.456#07 + (203084)
GIRA	surface switch	pure white (glossy)		KTRBUu217.456#07 + 0282 112
GIRA (System 55)	Standard / E2	pure white (semi-gloss)	KTRBUu217.456#56	not required
GIRA (System 55)	Standard / E2 / E3	pure white (glossy)	KTRBUu217.456#55	not required
GIRA (System 55)	E22	pure white (glossy)	KTRBUu217.456#55	not required
GIRA (System 55)	Event	pure white (semi-gloss) + opaque	KTRBUu217.456#56	not required
GIRA (System 55)	Event	pure white (glossy) + opaque	KTRBUu217.456#55	not required
GIRA (System 55)	Esprit	pure white (semi-gloss) + glass, aluminium	KTRBUu217.456#56	not required
GIRA (System 55)	Esprit	pure white (glossy) + glass, aluminium	KTRBUu217.456#55	not required
GIRA	S-Color	pure white (high-gloss)		KTRBUu217.456#07 + 0282 40
JUNG	CD 500/CD plus	alpine white (glossy)		KTRBUu217.456#07 + CD 590 Z WW
JUNG	A 500/A 550/AS 500/A plus/A flow	alpine white (glossy)	KTRBUu217.456#55	not required
JUNG	LS 990	alpine white (glossy)		KTRBUu217.456#07 + LS 961 Z WW
JUNG	LS plus	alpine white (glass)		KTRBUu217.456#07 + LS 961 Z WW
JUNG	A creation	alpine white (glossy)	KTRBUu217.456#55	not required
JUNG	LS Design	alpine white (glossy)		KTRBUu217.456#07 + LS 961 Z WW
MERTEN (System M)	M-Smart, M-Plan, M-Pure	polar white (matt)	KTRBUu217.456#56	not required
MERTEN (System M)	M-Smart, M-Plan, M-Creativ, M-Pure	polar white (glossy)	KTRBUu217.456#55	not required
MERTEN (System Basis)	1-M/Atelier-M	polar white (glossy)	KTRBUu217.456#55	not required
MERTEN (Surface System)	Artec / Antik	polar white (glossy)		KTRBUu217.456#07 + 5160 99
MERTEN	1-M/M-Smart/M-Plan/ M-Pure/D-Life	active white - see RAL 9016 below		
РЕНА	Standard	pure white (glossy)		KTRBUu217.456#07 + 80.670.02 ZV
PEHA	Dialog	pure white (glossy)		KTRBUu217.456#07 + 95.670.02 ZV
PEHA	Aura	pure white (matt)/glass		KTRBUu217.456#07 + 20.670.02 ZV
PEHA	Badora	pure white (glossy)		KTRBUu217.456#07 + 11.670.02 ZV
MANUFACTURER	RANGE	COLOUR RAL 9016	ADAPTATION	ADAPTATION
BUSCH-JAEGER	solo/future/future linear	studio white (RAL 9016, glossy)		KTRBUu217.456#27 + 1746/10-84
BUSCH-JAEGER	axcent	studio white (RAL 9016, glossy)		KIRBUu217.456#27 + 1746/10-84
BUSCH-JAEGER	carat (glass, bronze, gold)	studio white (RAL 9016)		KTRBUu217.456#27 + 1746/10-84
BUSCH-JAEGER	alpha (nea / exclusive *)	studio white (RAL 9016, glossy)		KTRBUu217.456#27 + 1746/10-24G
MERTEN	M-Smart, M-Plan, M-Pure	active white (RAL 9016, glossy)	KTRBUu217.456#59	not required

*) During assembly, you need to remove 4 plastic tabs located at the rear of the frame.

1-M/Atelier-M

D-Life

Standard

NOTE: Most light switches are designed in the colour 'like RAL 9010', although different switch manufacturers use different designations for this colour. Coloured, glass and aluminium frames are also combined with white jacks or plugs so that controllers with white covers can also be integrated into these frames. Check the precise application in each individual case. The frames have different surface qualities (matt/glossy). For design reasons, the cover of the controller should have the same quality as the frame. We accept no liability for slight variations in colour and surface finish or for accuracy of fit. When installing devices into multi frames, always assemble the temperature controllers at the lowermost position.

active white (RAL 9016, glossy)

lotus white (RAL 9016)

arctic

KTRBUu217.456#59

not required

KTRBUu217.456#27 + MEG4500-6035

KTRBUu217.456#27 + D 80.670 ZV AW

'50x50 controller': The housing covers of the 50x50 controllers are 50x50 mm in size. Using a 50x50 mm insert frame, they can be integrated into nearly all light switch ranges in accordance with DIN 49075. The 50x50 mm insert frames must be ordered from the light switch manufacturer or from a wholesaler. The order number of the insert frame corresponding to the switch range in question can be found in the column 'For adaptation of '50x50' KTRBUu'.

'55x55 controller': The housing covers of the 55x55 controllers are 55x55 mm in size. Many light switch ranges have inner dimensions of 55x55 mm. Therefore, the 55x55 controllers can be installed directly in the light switch frame without the use of an insert frame. See the column 'Adaptation in switch range (55x55)' to determine whether the 55x55 controller fits in the given light switch range (KTRBUu217.456#xx).

All information regarding switch manufacturers' product lines and item numbers was last updated in 12/2022 | No liability is assumed for the information provided. | Technical specifications subject to change.

MERTEN

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PEHA



BEAUTY IN SIMPLICITY.





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ALRE-IT REGELTECHNIK GMBH

Richard-Tauber-Damm 10 12277 Berlin, Germany

Phone: +49(0)30 399 84 0 Fax: +49(0)30 391 70 05 E-mail: mail@alre.de

www.alre.de

alre – simply control.