

Wired analog thermostat EKWCTRAN1V3

Description

The Daikin Wired Digital Thermostat is a high-quality room thermostat in modern design for the registration and regulation of the desired room temperature, offering maximum user comfort.

The Daikin Wired Digital Thermostat is available for 230 V operating voltage. A simple room-by-room temperature control is already possible with directly connected actuators. In conjunction with the connection unit Daikin UFH Base Station, a perfectly matched overall system for surface temperature adjustment can be realized.

The setting of the desired room temperature and the operation, can be performed comfortably via a rotary control. An optimum price-performance ratio is offered for rooms where only a very good temperature control is desired, without the comfort function of the display variant.

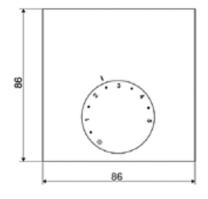


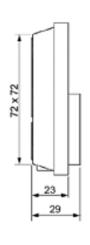
Features

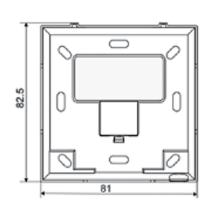
- > Flat design and small dimensions (86 x 86 x 29 mm)
- > Regulation in stand-alone or in the system
- > Equipment for heating and cooling systems
- > Reduction input for room temperature reduction
- > Target value calibration

- > Limitation of the target temperature setting range
- > Valve and antifreeze protection function
- > Change-over input
- > High-quality, modern design
- › High functional security

Dimensions (in mm)



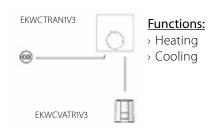




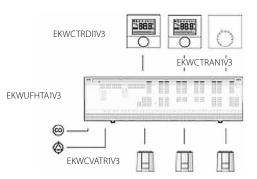
Material	EKWCTRAN1V3			
Operating voltage	230 V ±10 % 50 Hz	Fuse	T2AH	
Voltage supply	via base/mains connection	Max. number of connectible actuators	10 (max. 3 W/actuator)	
Power consumption in idle operation	<0.3 W	Control direction of actuators to be connected	NC	
Rated current w/o valve drives	≤2 mA	Switching element	Relay	
Max current draw allowed with connected valve drives	1.8 A	Switching power	1.8 A ohmic load, 200 VA inductive	
Target temperature setting range	10 to 28°C	Change-over input	switchable via potential-free contact	
Target temperature resolution	0.25 ℃	Reduction input	yes	
Actual temperature measuring range	0 – 40°C	Reduction temperature	2 K	
Set value calibration	±2 K	Antifreeze temperature	Normal operation: 10 °C Reduction: 8 °C	
Measuring accuracy of actual temperature	±0.5	Valve protection function	Once every 14 days for 6 minutes	
Type of installation	On-surface wall installation	Protection class	II	
Ingress protection	IP20	Pollution degree	2	
Admissible ambient temperature	0 to 50°C	Connection line	NYM-O 5 x 1.5 mm ²	
Admissible storage temperature	-25 to +75 °C	Connection terminals	7 screw terminals 0.22 – 1.5 mm ²	
Admissible ambient humidity	80%, not condensing			
Rated impulse voltage	1500 V			
Net weight	90 g	Casing material	PC + ABS	
Net dimensions (W x H x D)	86 x 86 x 29 mm	Colour Signal white (RAL 900		
Gross weight	120 g			
Gross dimensions (W x H x D)	91 x 88 x 42 mm			

Installation examples

Stand alone



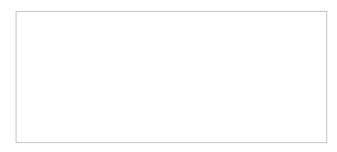
With UFH base station



Functions:

- > Heating
- > Cooling
- Extended pump/boiler control with lead time and follow-up time
- Connection for external system clock (opt.)

 Daikin Europe N.V.
 Naamloze Vennootschap Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Publisher)







The present publication is drawn up by way of information only and does not constitute an offer binding upon Dalkin Europe N.V. Dalkin Europe N.V. has compiled the content of this publication to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Dalkin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication. All content is copyrighted by Dalkin Europe N.V.



Wired digital thermostat EKWCTRDI1V3

Description

The Daikin Wired Digital Thermostat is a high-quality room thermostat in modern design for the registration and regulation of the desired room temperature, offering maximum user comfort.

The Daikin Wired Digital Thermostat is available for 230 V operating voltage. A simple room-by-room temperature control is already possible with directly connected actuators. In conjunction with the connection unit Daikin UFH Base Station, a perfectly matched overall system for surface temperature adjustment can be realized.

The setting of the desired room temperature and the operation, can be performed comfortably via a rotary control with rotary-push action and soft ratchet. The well-structured and language-neutral symbols of the display always clearly indicate all settings.

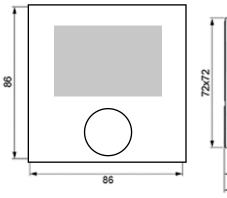


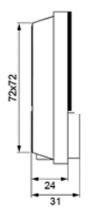
Features

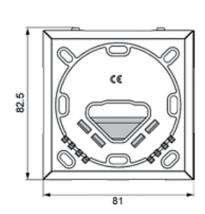
- > Large, clearly structured LCD with background illumination allows reading the display even in the dark
- > Flat design and small dimensions (86 x 86 x 31 mm)
- > Smart Start / Smart Stop function
- > Selectable operating modes
- > Comfort programs for heating and cooling operation
- > Correction of actual temperature registration

- > Limitation of the target temperature setting range
- > Valve and antifreeze protection function
- > Change-over input
- > Suitable for NC and NO operation
- > Easy, intuitive installation, operation and maintenance

Dimensions (in mm)



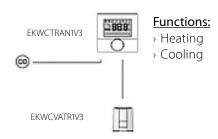




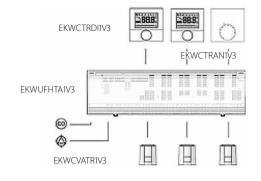
Material	EKWCTRDI1V3			
Operating voltage	230 V ±10 % 50 Hz	Fuse	T1AH	
Voltage supply	via base/mains connection	Max. number of connectible actuators	5 (max. 3 W/actuator)	
Power consumption in idle operation	<0.3 W	Control direction of actuators to be connected	NC/NO	
Rated current w/o valve drives	≤2 mA	Switching element	Relay	
Max current draw allowed with connected valve drives	1 A	Switching power	1 A ohmic load, 200 VA inductive	
Target temperature setting range	5 to 30°C	Change-over input	electronically	
Target temperature resolution	0.2 ℃	Reduction input	yes	
Actual temperature measuring range	0 – 40°C	Reduction temperature	Adjustable value for day and night temperature (heating & cooling)	
Set value calibration	±2 K	Antifreeze temperature	5 ℃	
Measuring accuracy of actual temperature	±0.5 K between 17 and 24 °C	Valve protection function	Once every 14 days for 10 minutes	
Controlling precision	±0.5 K between 17 and 24 °C			
Type of installation	On-surface wall installation	Protection class	Ш	
Ingress protection	IP20	Pollution degree	2	
Admissible ambient temperature	0 to 50°C	Connection line	NYM-O 5 x 1.5 mm ²	
Admissible storage temperature	-20 to +70 °C	Connection terminals	6 screw terminals 0.22 – 1.5 mm ²	
Admissible ambient humidity	80%, not condensing			
Rated impulse voltage	1500 V			
Net weight	105 g	Background illumination	yes	
Net dimensions (W x H x D)	86 x 86 x 31 mm	Casing material	ABS	
Gross weight	140 g	Decorative panel material	Acrylic glass XT	
Gross dimensions (W x H x D)	91 x 88 x 42 mm	Colour	Signal white (RAL 9003)	

Installation examples

Stand alone



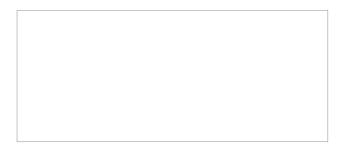
With UFH base station



Functions:

- > Heating
- > Cooling
- Extended pump/boiler control with lead time and follow-up time
- Connection for external system clock (opt.)

 Daikin Europe N.V.
 Naamloze Vennootschap Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Publisher)







The present publication is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this publication to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication. All content is copyrighted by Daikin Europe N.V.



Valve actuator EKWCVATR1V3

Description

The Daikin Valve Actuator is a thermoelectric valve drive for opening and closing valves on heating circuit distributors of concealed floor heating and cooling systems.

The main field of application is the energy-efficient individual room temperature control in the range of building management systems and home automation. The Valve Actuator is controlled by a 230 V room thermostat with two point output or pulse-width modulation.



Features

- > Modern design
- > Stroke 4.0 mm
- > Normally closed (NC)
- > Power consumption 1 watt
- > Simple snap-on installation
- > 360° installation position
- > Protection against leaky valves> First-Open function*

- > Adaptation check on valve
- > Alignment aid on the valve
- > Compact size, small dimensions
- > All around function indicator
- > Noiseless and maintenance-free
- High functional safety and long expected service life
- > Surge protection guarantee

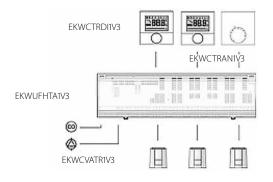
*In its delivery condition, the Valve Actuator is kept open when de-energized due to the First-Open function. This enables heating operation during the construction phase even when the electric wiring is not yet complete. During the later electrical start-up, the First-Open function is unlocked by applying the operating voltage for more than 6 minutes. The Valve Actuator will then be completely operable.

Dimensions (in mm) VA 80 VA 94

Operating voltage	230 V / ±10% / 50/60 Hz	Degree of protection	II
Max. inrush current	< 550 mA during 100 ms max.	Ingress protection	IP 54
Operating power	1 W	Surge protection according to EN 60730-1	2.5 kV
Stroke (actuator travel)	4.0 mm	CE conformity according to	EN 60730
Actuating force	100 N +10 %	Housing material	Polyamide
Fluid temperature	0 to +100°C	Housing colour	light grey (RAL 7035)
Ambient temperature	0 to +60°C	Connecting cable/colour	2 x 0.75 mm2 PVC / light grey (RAL 7035)
Storage temperature	-25°C to +60°C	Cable length	1 m
Included adapter	VA80 & VA94		
Measuring accuracy of actual temperature	±0.5		
Net weight	100 g	Gross weight	130 g
Net dimensions (W x H x D)	52 x 48 x 44 mm	Gross dimensions (W x H x D)	74 x 50 x 89 mm

Installation examples

With UFH base station



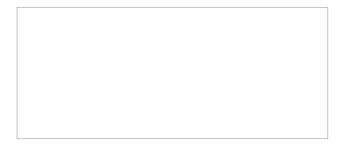
Functions:

- > Heating
- > Cooling
- > Extended pump/boiler control with lead time and follow-up time
- > Connection for external system clock (opt.)
- > Temperature limiter or dew point sensor (opt.)

Compatibility

VA 80		VA 94		
Thread	N	M30x1,5	Thread	M30x1,0
	C	Compatible models		
663 & 664 (3-way), AO-Therm brass manifold, Aquatechnik Italy (Multirapid,bef Brugman, Caleffi (with manufacterer Threadring), Carlo Poletti (V1521), Cosmo manifold, Frese Optima Compact Low 2,5, Gomacal, Herz 3-way-values (1 7762 Thermostatic valves Serie TS 98 VH; Honeywell (H) (Typ: V9050, VSOF 215), Hot stainless steel HKV, Jaga, Johnson-Controls (Typ:V5210KC, V5510KC, V5810DC), Presblock (RTEV-M), ratiodaemm, RDZ (brass manifold), Roversy, Sauter (BUT01 Siemens VV146, VX146, VVP47, VXP47, VMP47, SKV manifold, Strasshofer, Taco (V 06-06S), Tobler Stramax (220TTT-06-04S), Unicor brass manifold), VSMF 315, V5823A, VSMF-215, VSMF-220, VSMF415, VTE corners brass manifold), VSMF 315, V5823A, VSMF-215, VSMF-220, VSMF415, VTE corners	o (Objekt-Line) 2 xx), Herz 3-w oneywell (V582), Kemper stain 10 F410), Saut (Vogel & Noot, s-/stainless ste) (CMV Modul manifold) 10,50, Empur brass manifold, EQ-Therm brass ray-valves with bypass (17763 xx), Herz controlvalve (17760 xx), Herz 23, VS833), Honeywell VS020 (MNG), Honeywell VS8x2A1063, Inteca, IVR nless steel, Nereus corner valve DN 10, Onda-Therm HKV-Module, Pexep, ter (VXL F200 & F210) (BXL, F200 & F210) (BUL), Siemens VP146 & VPP46, Cosmo stainless.), Therminon HKV-Modul, TKM, Tobler Stramax (220TT2-eel manifold (from 2014), VIR (Serie 9520, 9700), Voogel & Noot (Cosmo	Lavagrund Polytech Aqua : redex	Seal

 Daikin Europe N.V.
 Naamloze Vennootschap Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Publisher)







The present publication is drawn up by way of information only and does not constitute an offer binding upon Dalkin Europe N.V. Dalkin Europe N.V. has compiled the content of this publication to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Dalkin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication. All content is copyrighted by Dalkin Europe N.V.



Wired UFH Base Station EKWUFHTA1V3

Description

The Daikin Wired Underfloor Heating Base Station is the central connection unit of a room-by-room temperature control for the surface temperature adjustment of heating and cooling systems.

With minimum expense, the UFH Base Station can be wired to all system components as e. g. thermostats and actuators. The system components are supplied directly with the voltage supply of the UFH Base Station. All switching commands for the thermostats are forwarded directly to the connected system components via the Underfloor Heating Base Station.



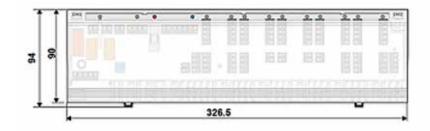
Features

The Daikin Wired UFH Base Station includes extensive functions for an energy-efficient and system-considerate comfort operation. It lets you offer easy installation and maximum surface temperature adjustment comfort to your customers.

- > Control up to 10 zones
- > A maximum of 18 actuators can be connected
- > Equipment for heating and/or cooling systems
- > Simple, intuitive installation and operation
- > Status signaling by LEDs
- > Proven cable guide and standard-complying strain relief
- > Screwless terminal connection technique
- > Clearly structured connection terminals

- > Reduction channel for a time-controlled room temperature reduction
- > Pump and boiler control
- > Adjustable follow-up time for pump and boiler control
- > Connection for a temperature limiter or dew point sensor
- Selectable control direction via DIP switch: NC or NO (NO: normally open / NC: normally closed)
- > High functional security
- > Maintenance-free

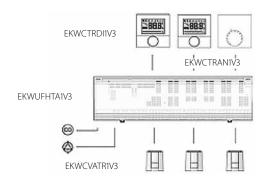
Dimensions (in mm)





Material	EKWUFHTA1V3			
Operating voltage	230 V / ±10% / 50 Hz	Boiler circuit	Closing contact (monopolar switching	
Voltage supply	external voltage source	Switching element	Relay	
Power consumption in idle operation ¹	<1 W	Switching power	2 A, 200 VA inductive	
Max. power consumption (wi- thout pump/boiler consumer)	max. 50 VA	Turn-on delay	2 min (Switching pulses below 2 minutes will be suppressed)	
Fuse	T4AH	Follow-up time	2 min, additionally 0-15 minutes adjustable by DIP switch	
Max. number of thermostats	10	Pump protection function	14 days/1 min	
Max. number of connection terminals for actuators	21	Control direction	NC/NO adjustable via DIP switch	
Max. number of connectible actuators	18 (max. inrush current 500 mA per actuator)	Change-over input	switchable via potential-free contact	
Pump circuit	Closing contact (monopolar switching) Direct connection possible via L'/N'	Temperature limiter or dew point sensor	switchable via potential-free contact	
Type of installation	Wall installation/DIN rail (TS35/35 x 7.5 mm)	Connection line	massive: NYM-J/NYM-O (max. 5 x 1.5 mm²) flexible: H03V2V2H2-F / H05V2V2H2-F	
Admissible ambient temperature	0° to +50° C	Strain relief	integrated	
Admissible storage temperature	-20° to +70° C	Standards and regulations	EN 60730-1, EN 60730-2-9	
Admissible ambient humidity	80%, not condensing	ERP class acc. to EU 811/2013	1=1 %	
Pollution degree	2	Protection class	II	
Rated impluse voltage	1500 V	Ingress protection	IP 20	
Connection terminals	screwless terminals for 0.2 to 1.5 mm², vertical cable entry			
Net weight	472 g	Material	Cover: ABS / Casing: ABS	
Net dimensions (W x H x D)	90 x 52 x 326.5 mm	Colour	Cover: transparent / Casing: light grey (RAL7035)	
Gross weight	610 g			
Gross dimensions (W x H x D)	98 x 66 x 333			

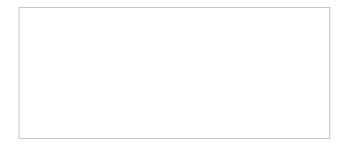
Installation examples



Functions:

- > Heating
- > Cooling
- > Extended pump/boiler control with lead time and follow-up time
- > Connection for external system clock (opt.)

 Daikin Europe N.V.
 Naamloze Vennootschap Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Publisher)









The present publication is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this publication to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication. All content is copyrighted by Daikin Europe N.V.