



RAKE713...

RAME743...

Electronic temperature control with 3-point output

in protective housing, for mounting with a pocket, or on pipes



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Registered under DM/066 622

Electronic temperature control with 3-point output with adjustable proportional range, neutral zone and mixing valve operating time

Application Electronic temperature control for applications in boilers and on heating-, ventilation-and air conditioning equipment. Fitting through a pocket or on pipes.

Features

- Status indication by LED for power supply and control status
- The set temperature value is not sensitive to temperature changes on the housing (max. ±1K).
- Two, on the contact side reciprocally locked, relays
- Time factor for the pocket according DIN 3440

Type summary	Туре	Order- Nr.	Range , adjustable[°C]	Pocket length
	RAKE713.0110M	011-6501	0 60°C / 60 120°C	100 mm
	RAKE713.0111M	011-6502	0 60°C / 60 120°C	150 mm
	RAKE713.0112M	011-6503	0 60°C / 60 120°C	200 mm
	RAKE713.0113M	011-6504	0 60°C / 60 120°C	280 mm
	RAKE713.0114M	011-6505	0 60°C / 60 120°C	450 mm
	RAKE713.0115M	011-6506	0 60°C / 60 120°C	600 mm
	RAME743.011M	011-6510	0 60°C / 60 120°C	with clamping band

Technical data

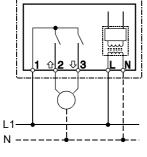
Power supply	Voltage Power consumption Low voltage part	230VAC -15+10%, 50Hz approx. 3VA Protection isolated	
Switching power	Nominal voltage range Nominal current range $I (I_M)$ Service life at nominal load	AC 24250 V / DC 20300 V 0.054(4) A cos φ ≥ 0,6 min. 100'000 operations	
Settings	Setting range set temperature DIP - switch: set temperature proportional range Xp neutral zone Nz mixing valve operating time	Double scale 0 60° C / 60 120° CDIP1 Off: 060^{\circ}C /DIP2 Off: ± 20K /DIP2 Off: ± 3K /DIP3 Off: ± 3K /DIP3 Off: ≥ 30s /DIP4 Off: ≥ 60s	
Sensor	Measuring element Measuring range	Pt1000 class B (DIN EN 60 751) -20 +140°C	

Calibration Ambient conditions	Calibration tolerance Time factor in water / in oil Housing temperature range Max. sensor temperature Ambient temperature for storage and transportation	± 1 K < 45 s / < 60 s 0 50°C (T50) 200°C -20 +60°C	
Standards	CE - conformity EMC noise emission EMC noise immunity Product standard Operation mode Protection class	Guide line 89/336/EWG, 93/68/EWG EN50081-1/EN55022B EN50082-2/EN60730 EN60730-1/-29 Type 1C (EN60730-1/-29) Il according EN60730	
Execution	Protection mode Socket Cover Pocket length R Electrical connection Cable bushing Weight without packaging and pocket	IP54 according EN 60 529 Polyamide reinforced (PA), temperature stability up to 120°C Polycarbonate (PC), temperature stability up to 120°C 100, 150, 200, 280, 450 or 600 mm Screw terminals M20 and M16 approx. 255 gr.	
Fitting notes	Check the mounting instructions inside the packaging.		

The required pocket material depends on the installation (medium, tank material etc.) and must be specified by the user.

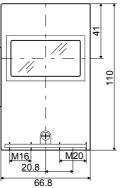
To comply with the time factor requirements according DIN 3440, pockets must be conform to drawing H 1 7111 3459 (see also data sheet "Pockets 1130").

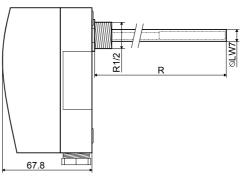
Wiring diagram/ status indicators



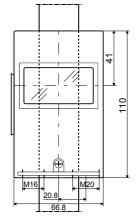
Supply status:	yellow LED	
Relays status double - LED:	0	red LED green LED

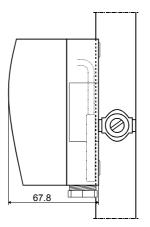
Dimensions RAKE





Dimensions RAME





Socket 005-1054 Cover 005-0551.3