

2-point control

Electronic  
Temperature control

RAME742...

in protective housing, with accessories for mounting on pipes



Registered under DM/066 622

## Electronic temperature control with adjustable thermal differential

## Application

Replacement for electromechanical thermostats where tight tolerances and/or an adjustable thermal differential are required.

For applications in boilers and on heating-, ventilation-and air conditioning equipment.  
The device is mounted on pipes.

## Features

- If nominal value is reached, the changeover switch is activated.
- The nominal value is not sensitive to temperature changes on the housing (max.  $\pm 1$  K).
- Single-pole relays with change-over switch.
- Time factor for the Sensing element acc. EN 14597

## Type summary

Type	Order-no.	Range [°C]	Function
RAME742.000M	011-6301	-20...40	TW
RAME742.002M	011-6321	30...90	TW
RAME742.004M	011-6341	80...140	TW

## Technical data

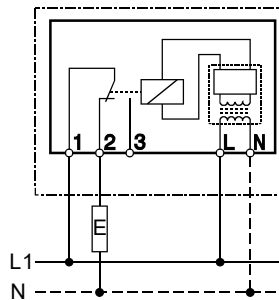
Power supply	Voltage	230 V~ -15...+10 %, 50 Hz
	Power consumption	approx. 3 VA
Switching power	Nominal voltage range	12...250 V~
		10...300 VDC
	Nominal current range $I (I_M)$	0.1...8(4) A
Application range	Adjustable cut-off temperature $\vartheta_{off}$	see „Type summary“
	Thermal switching differential	0.5 K to 15.5 K
	Base value	0.5 K
	- with DIP switch adjustable values	DIP1 = +1 K
		DIP2 = +2 K
		DIP3 = +4 K
		DIP4 = +8 K
	Ambient temperature on housing	0...50 °C (T50)
	Max. sensing element temperature	200 °C
	Ambient temperature for storage and transport	-25...+70 °C

Sensor	Sensor Type Measuring range	Pt1000 class B (EN 60751) -20...+200 °C
Calibration	Calibration tolerance Time factor in water / in oil	$\pm 1$ K <45 s / <60 s
Specification	Protection mode of housing Housing socket  Housing cover  Electrical connection Cable bushing Weight without packaging and accessories	IP66 acc. EN 60529 Polyamide reinforced (PA), temperature stability up to 120 °C Polycarbonate (PC), temperature stability up to 120 °C Screw terminals M20 and M16 approx. 255 gr.

### Fitting notes

See the mounting instructions inside the packaging.

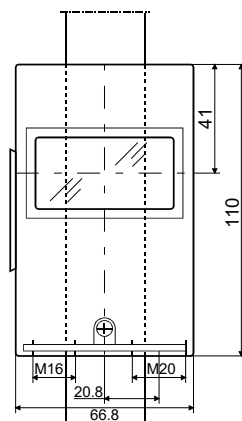
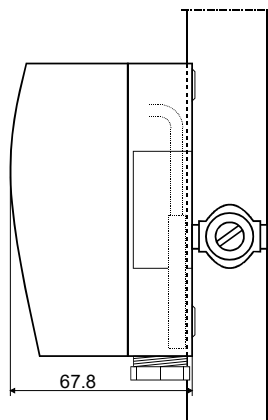
### Wiring diagram/ status indicators



Supply status 1 LED yellow

Relays status contacts 1-2 1 LED red

### Dimension drawing



Socket 005-1054  
Cover 005-0551.3  
Clamping band 005-0556