

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

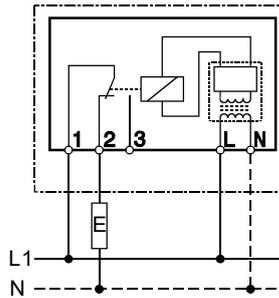
Power supply	Voltage	230 V~ -15...+10 %, 50 Hz
	Power consumption	approx. 3 VA
Switching power	Nominal voltage range	12...250 V~ 10...300 VDC
	Nominal current range I (I <sub>M</sub> )	0.1...8(4) A
	Adjustable cut-off temperature $\vartheta_{\text{off}}$	see „Type summary“
Application range	Thermal switching 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 (T <sub>50</sub> )
	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	± 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**

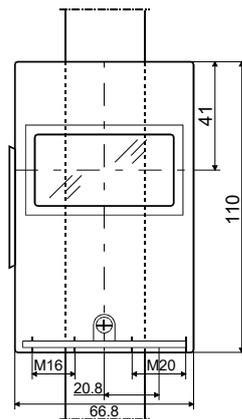
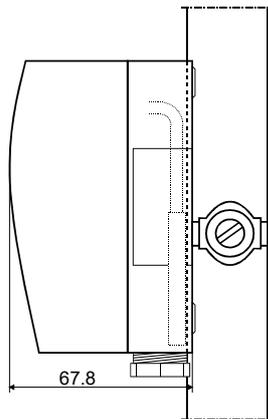
See the mounting instructions inside the packaging.

**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