

Not
temperature
compensated

**Electro-mechanical temperature
control / frost protection controller**

**RAK722...
RAK732...**

In protective housing, with accessories for on-wall mounting



Registered under DM/066 622

Electro-mechanical temperature control acc. EN 14597
Electro-mechanical safety temperature limiter acc. EN 14597, fail-safe

Application

For the use in heat generator plants and other heating, ventilating and air conditioning applications. The device is mounted on a bracket for on-wall fixing.

Features

- Fail-safe, manual reset types, contact 11-12 will open in case of capillary failure (STL)
- Nominal value irreversibly adjustable from higher to lower temperature (STL)
- If nominal value is reached, the change-over switch is activated (TC-function), or the limiter switches and stays locked in this position (STL-function)
- Reset is performed manually and is only possible after the sensing element is cooled off by approx. 20 K (STL-function)
- With compensation of ambient temperature (TC) at switching head and capillary (KTK)
- Single-pole micro switch with change-over switch
- Time factor of sensing element acc. EN 14597
- Operation STL Type 2 BDFHKL acc. EN 14597
- Operation TL Type 2 B acc. EN 14597

Type summary

Type	Order-no.	Range [°C]	Immersion length
RAK722.0001M	011-4302.10	-10...50	1600mm
RAK722.0015M	011-4303.10	15...95	800mm
RAK722.0021M	011-4304.10	40...120	1600mm
RAK722.0045M	011-4305.10	50...130	800mm
RAK722.0051M	011-4306.10	80...160	1600mm
RAK722.0061M	011-4307.10	110...190	1600mm
RAK722.0070M	011-4308.10	150...230	1000mm
RAK722.0127M	011-4309.10	40...90	2200mm
RAK722.0135M	011-4310.10	5...30	800mm
RAK722.0141M	011-4311.10	5...65	1600mm
RAK723.0046M	(STB) 011-4332.10	130/120/110/100/95	3200mm
RAK722.0/1974M*	011-4360.10	-10...50	1600mm
RAK732.0/1873M*	011-4403.10	5...30	800mm
RAK732.0/1878M*	011-4402.10	5...65	1600mm

* for mounting on ducts, see dimension drawing

Technical data

Switching system

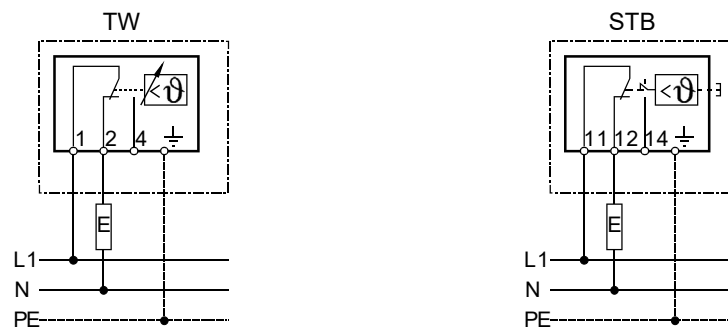
Switching capacity acc. VDE 0631		
- Nominal voltage range		40...250 V~
- Nominal current range I (I _M)	(TC)	0.5...16(2.6) A
	(STL)	0.5...10(6.0) A
Service live at nominal load	(TC)	min. 100'000 operation
Service live at nominal load	(STL)	min. 15'000 operation
Protection class		I acc. VDE 0631
Protection mode of housing		IP66 acc. EN 60529

Application range	Adjustable cut-off temperature ϑ_{off} Thermal switching differential Ambient temperature on housing Max. sensing element temperature Ambient temperature for storage and transport	see "Type summary" approx. 4.0 K \pm 2.0 K max. 70°C (T70) 120°C up to 280°C (dependent of Type) -25...+75°C
Calibration	Calibration tolerance (TC) Calibration tolerance (STL) Calibrated for ambient temperature (TC) on switching head and capillary (STL) Time factor in water / in oil	\pm 4 K up to \pm 8 K (dependent of Type) (0-9) K 23 \pm 2°C (Tu23 according to DIN EN 14597) 37 \pm 2°C (Tu37 according to DIN EN 14597) < 45 s / < 60 s
Specification	Switching head support (basic insulation) Capillary Sensing element Diaphragm Housing socket Housing cover Electrical connection Earth connection Cable bushing Weight without packaging and accessories	ceramic stainless steel copper stainless steel Polyamide reinforced (PA), temperature stability up to 120°C Polycarbonate (PC), temperature stability up to 120°C screw terminals screw terminals M20 approx. 255 gr.

Fitting notes

See the mounting instructions inside the package

Wiring diagram



Dimension drawing

