

Programmable ON/OFF Controller RT38-R

- ◆ Low cost
- ◆ 11-pin box for DIN-rail mounting
- ◆ 3-digit bright LED display
- ◆ Semi-universal input
- ◆ Various power supplies
- ◆ Fully programmable parameters



Technical specifications

Input (programmable)	
RTD, DIN (w=1.385); 3-wire	Pt50, Pt100, Pt500, Pt1000
RTD, GOST (w=1.391); 3-wire	Pt46, Pt50, Pt100, Cu50, Cu100
RTD measurement range	-100...600 °C
Thermocouple "T"	-40...400 °C
Thermocouple "J"	-20...999 °C
Thermocouple "K"	-20...999 °C
Linear voltage 0...10 V	-199...999, programmable
Linear current 0(4)...20 mA	-199...999, programmable
Two-wire external transmitter	4...20 mA ⁽¹⁾
RTD or T/C type selection	programmable
Decimal point selection	programmable
Temperature measurement unit	°C or °F, programmable
Output	
Relay electromechanical	5A/250V w/ NO/NC contact
Solid state relay	1A/250VAC
MOS gate	0.1A/60V, optically isolated
Output for external SSR	5...24 V, 30 mA
Control algorithm	ON/OFF
Set point	within input range limits
Alarms	programmable
Accuracy	
Measurement error	0.3% from span
Temperature drift	0.02% from span for 1 °C

⁽¹⁾ Provides loop supply voltage - 24 VDC (only w/ isolated power supply)

⁽²⁾ Ordered separately (see 'Accessories')

Power supply

Mains supply voltage	230 VAC or 115 VAC
SMPS voltage	90...250 VAC/DC
Isolated low voltage	12...24 VAC/DC or 24 VAC
Non-isolated low voltage	12...24 VAC/DC
External mains transformer ⁽²⁾	9(12) VAC
Consumption	max. 1.5 VA

Indication and controls

Digital display	3 LED indicators, 10 mm
LEDs	LED for output state
Keyboard	3 membrane keys, lockable

Operating conditions

Operating temperature	-10...65 °C
Operating humidity	0...85 %RH

Design and materials

Case material	plastic
Mounting	in socket or on 35 mm DIN rail
Wiring	socket UNDECAL ⁽²⁾
Dimensions	35x78x91 mm
Weight	180 g
Protection, front/terminals	IP44 / IP20

Ordering code RT38 - R.G1.G5.G6

Code	Feature or option	Code values
G1	Power supply	A - 230 VAC, B - 115 VAC, C - 90...250 V, E - 9(12) VAC w/ external transformer ⁽²⁾ , P - 12...24 V, non-isolated, Q - 12...24 V, isolated, R - 24 VAC
G5	Relay output	X - none, C - relay NO/NC, D - SSR, J - for external SSR, M - isolated MOS gate
G6	Input	B - RTD (programmable), C - thermocouple (programmable), D - 0(4)...20 mA, DK - 0...10 V