

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

Accuracy	
<i>Measurement error</i>	0.3% from span
<i>Temperature drift</i>	0.02% from span for 1 °C
Power supply	
<i>Mains supply voltage</i>	230 VAC or 115 VAC
<i>SMPS voltage</i>	90...250 V
<i>Isolated low voltage</i>	12...24 V or 24 VAC
<i>Non-isolated low voltage</i>	12...24 V
<i>Consumption</i>	max. 1.5 VA
Indication and controls	
<i>Digital display</i>	3 LED indicators, 10 mm
<i>LEDs</i>	LED for output state
<i>Keyboard</i>	3 membrane keys, lockable
Operating conditions	
<i>Ambient temperature</i>	-10...65 °C
<i>Ambient humidity</i>	0...85 %RH
Design and materials	
<i>Case material</i>	plastic
<i>Mounting</i>	in socket or on 35 mm DIN rail
<i>Wiring</i>	socket UNDECAL ⁽²⁾
<i>Dimensions</i>	35x78x91 mm
<i>Weight</i>	180 g
<i>Protection, front/terminals</i>	IP44 / IP20

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

⁽²⁾ Ordered separately (see 'Accessories')

⁽³⁾ Ask for availability!

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, 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 ⁽³⁾ , J - for external SSR, M - isolated MOS gate ⁽³⁾
G6	Input	B - RTD (programmable), C - thermocouple (programmable), D - 0(4)...20 mA, DK - 0...10 V