

Programmable Trip-alarm Unit TI08-R

- ◆ Low cost
- ◆ 11-pin box for DIN-rail mounting
- ◆ 3-digit bright LED indication
- ◆ Universal linear input
- ◆ Up to 2 alarm relays available with pulsed output
- ◆ Auxiliary output for powering external transmitters
- ◆ Fully programmable parameters

TI08-R is a cheap programmable process indicator for DIN-rail mounting designed for trip-alarm applications. Equipped with a bright 3-digit LED display, this model is especially suitable for measuring and controlling various technological values from -199 to 999 with resolution of up to 1000 points. The device can have up to 2 programmable relays providing on/off control/alarm with or without pulse mode. TI08-R accepts various linear input voltage or current signals from 2- and 3-wire transmitters that can be powered internally via the auxiliary power supply output. The display-to-input correspondence, decimal point position, measurement offset value as well as many other parameters are fully programmable. Thanks to its excellent price-to-performance ratio, TI08-R is an exceptionally widely applicable device.



Technical specifications

Input	(programmable)
Linear voltage 0...10 V	-199...999, programmable
Linear voltage 0...5 V	-199...999, programmable
Linear current 0(4)...20 mA	-199...999, programmable
Two-wire external transmitter	4...20 mA ⁽¹⁾
Decimal point selection	programmable
Outputs	(up to 2 relay outputs)
Relay electromechanical	5A/250V w/ NO/NC ⁽²⁾ 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, pulse mode
Alarms	programmable
Accuracy	
Measurement error	0.3% from span
Temperature drift	0.02% from span for 1 °C
Operating conditions	
Operating temperature	-10...65 °C
Operating humidity	0...85 %RH

Power supply	
Mains supply voltage	230 VAC or 115 VAC
Isolated low voltage	12...24 VAC/DC or 24 VAC
Non-isolated low voltage	12...24 VAC/DC
External mains transformer ⁽³⁾	9(12) VAC
Consumption	max. 1.5 VA
Indication and controls	
Digital display	3 LED indicators, 10 mm
LEDs	2 LEDs for output state
Keyboard	3 membrane keys, lockable
Design and materials	
Case material	plastic
Mounting	in socket or on 35 mm DIN rail
Wiring	socket UNDECAL ⁽³⁾
Dimensions	35x78x91 mm
Weight	180 g
Protection, front/terminals	IP44 / IP20

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

⁽²⁾ NO for the 2nd relay

⁽³⁾ Ordered separately (see 'Accessories')

Ordering code TI08 - R.G1.G5G5

Code	Feature or option	Code values
G1	Power supply	A - 230 VAC, B - 115 VAC, E - 9(12) VAC w/ external transformer ⁽³⁾ , P - 12...24 V, non-isolated, Q - 12...24 V, isolated, R - 24 VAC
G5	Relay output	X - none, C - relay NO/NC ⁽²⁾ , D - SSR, J - for external SSR, M - isolated MOS gate