ITP16/ITP16-G

Temperature indicator

The ITP16 is a temperature indicator for monitoring and control of industrial processes. This display features a configurable analog input for various RTD, TC or linear voltage signals and a digital output. The NPN transistor output makes it possible to implement on-off control with a low voltage relay up to 42 V DC / 200 mA.

The process indicator ITP16 also supports an alarm function. If this function is on, the display starts blinking with the frequency of about 2 Hz when the process value exceeds the set points.

This device has a compact, standardised design and fits into a standard 22.5 mm borehole. This provides quick and easy installation and many displays can be accommodated in a control cabinet door or on a panel.

Functions and features:

- Measuring and displaying the signal values received from various RTDs and thermocouples
- Linear voltage signal scaling
- Adjustable decimal point position
- ON/OFF control with NPN output
- Display range -999…+9999
- Square root function (for special transmitters)
- Digital filter
- Alarm function (blinking when the exceeding set points)
- Error indication when the input signal is out of range
- Error indication when wire break or short circuit

Icon	Description
RED/GREEN	LED color: red or green
AI TC,RTD	Analog input for TC and RTD signals
DO NPN	Digital output with NPN type
24V DC	Powered by 24 V DC
(tools)	Easy mounting in Ø 22.5 mm borehole
(clock)	Save time for installation
(arrows)	Compact size
(push-button box)	Can be installed in a push-button box
Accuracy 0.2	Accuracy 0.2%
IP65	IP Code
+60°C / -40°C	Ambient temperature

Ordering code:

Standard variants	Description	Enclosure
ITP16	ITP14 with red display color	48 x 26 x 65 mm Panel mount
ITP16-G	ITP14 with green display color	48 x 26 x 65 mm Panel mount

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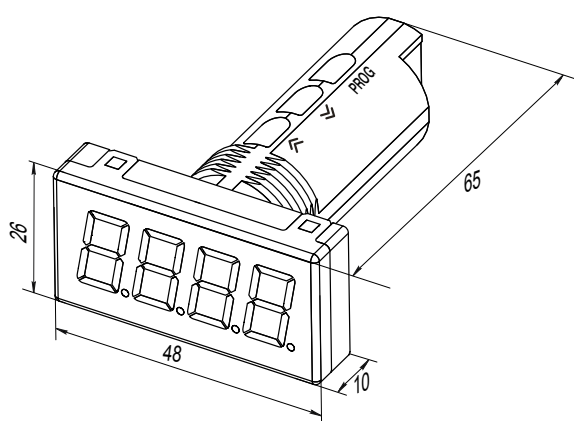# ITP16/ITP16-G
Temperature indicator

Areas of application:

The temperature display ITP16 is particularly suitable for the fast and easy installation of visual display systems for various thermal processes. The ITP16's compact size ensures that it can be used on-site as an additional display unit for measurement values or as part of a complex visual display system.
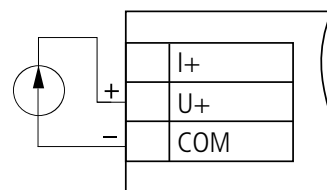
Technical data:

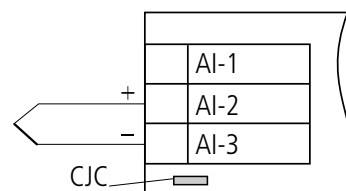|		
Power supply		24 (10…30) V DC
Power consumption, max.		1 W
Inputs		1
Input signal		TC (K, J, N, T, S, R, B, A, L, A-2, A-3), RTD (Pt50, Pt100, Pt500, Pt1000)
	Sampling time, max.	2 s
	Accuracy	± 0.2% FS
	Temperature influence	≤ 0.2% / 10 °C
	Input resistance	0-1 V, -50…+50mV 250 kohm
Outputs		1
	Type	NPN transistor
	Loading capacity	200 mA, 42 V DC
Display colour		red or green
IP Code		front IP65, rear IP20
Dimensions		48 x 26 x 65 mm
Weight		approx. 30 g
Protection class		III
Ambient temperature		-40…+60 °C
Storage temperature		-25...+55 °C
Humidity		up to 80% (at +35°C, non-condensing)

Dimensions:

Electrical connection:

Voltage signal wiring

TC sensor wiring

RTD sensor wiring