

The ITP17 is a universal indicator for monitoring industrial processes. It features a three-color display that shows parameters in green, yellow, and red. You can customize the thresholds for color changes to suit their specific needs. The ITP17 simplifies the selection process by directly interfacing with a variety of sensors, including those for temperature, level, pressure, and humidity, etc.

Main features of ITP17

- Three-color seven-segment indicator (green/red/yellow)
- Configurable analog input (0-5 mA, 0(4)-20 mA, 0(2)-10 V), RTDs and thermocouples signals.
- Programming via MicroUSB.
- ON/OFF Control: Includes an NPN output for ON/OFF control functionality.
- Operating modes: continuous indication of the measured parameter/three-color indication by thresholds.
- Standardised design and fits into a standard 22.5 mm borehole for signal lamps.



RED YELLOW GREEN	22.5 mm	0-10V 4-20mA	RTD	TC
IP65	+60°C -40°C	DO NPN	ON OFF	24 V DC

ONE DISPLAY
THREE SELECTABLE COLORS

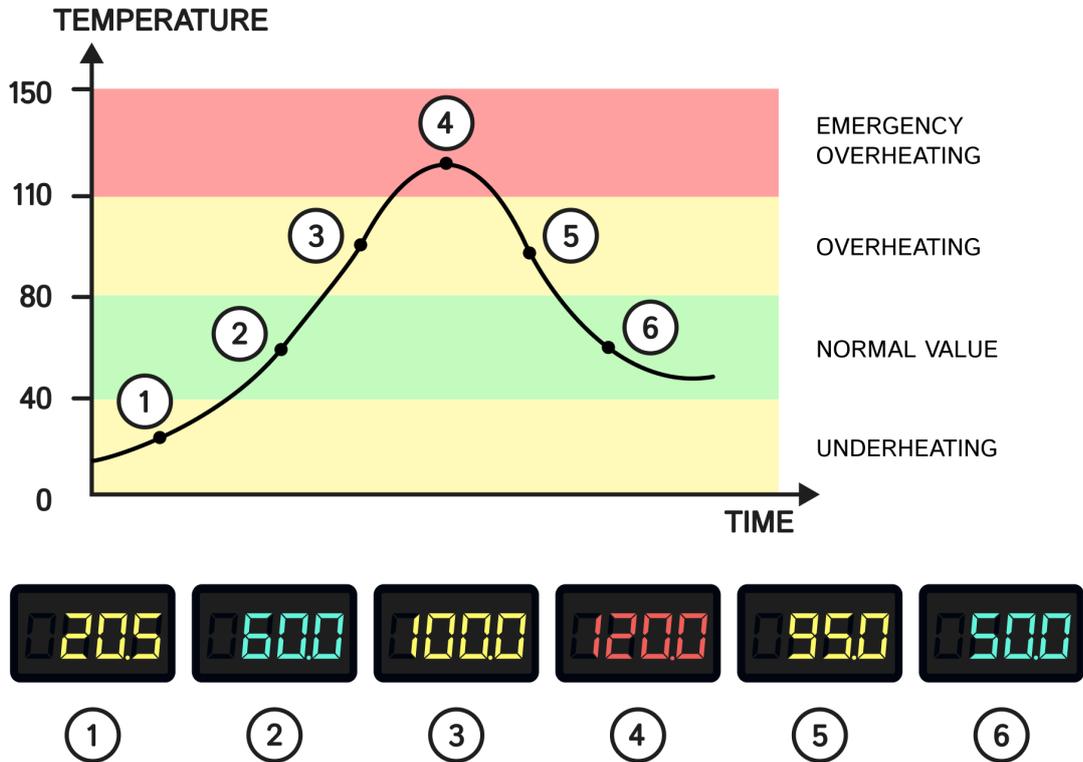
Functionality of ITP17:

- **4-digit three-color indicator.**
- **Universal input:** Supports direct connection of resistance thermometers, thermocouples, pressure sensors, humidity sensors, level sensors, etc. (For more details on the characteristics of measurement sensors, refer to the sensor specifications.)
- **Three-color indication:** Configurable according to required thresholds.
- **Operating modes:** Continuous indication of the measured parameter in red, yellow, or green, similar to the ITP14 and ITP16.
- **Alarm indication:** Triggered by signal interruption or when measurements exceed specified limits.
- **Output device:** For signaling or control with 200 mA and 42 V.
- **Power supply:** From an external DC voltage source of 10...30 V.
- **Design features:**
 - Mounts into a 22 mm hole.
 - Removable screw terminals.
 - Operating temperature range: -40 to +60 °C.
 - Enclosure protection rating: IP65 from the front panel.



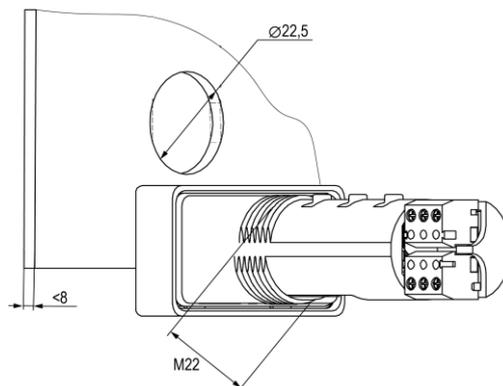
Display operation

The visual notification of the measured value status in ITP-17 is accompanied by an automatic color change. Let's consider an example of setting up color signaling of the heating process. Four events are defined: normal, underheating, overheating and emergency overheating. Each event has its own indicator color.



The ITP-17 indicator setup allows for the configuration of any user-defined color change thresholds and the corresponding colors within the signal measurement range. The only rule is that the threshold values for each subsequent color zone must be greater than the previous threshold.

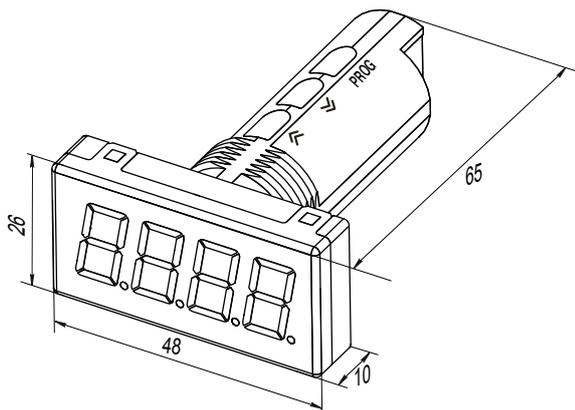
Mounting cutout



specifications:

Frame	
Dimensions	26×48×65 mm
Ambient temperature	-40...60 °C
Protection class	III
IP Code	front IP65, rear IP20
Display	
Display type	Four-digit seven-segment display
Character height	14 mm
Display color	Red\Green\Yellow
Input signal characteristics	
Number of measurement channels	1
Input signal type	<ul style="list-style-type: none"> • Current 0...5 mA, 0(4)...20 mA • Voltage 0(2)...10 V • RTD: 50/100/1000 Ω Cu, Pt, Ni, M, P • Thermocouples: B, J, K, N, R
Input resistance when measuring voltage, no more than	250 kΩ
Input polling time, no more than	0,3 s
Configuration Interface	MicroUSB
Power supply	
Power supply	10...30 V DC (nominal voltage 24 V)
Power consumption, max.	1 W

Dimensions:



Electrical connection:

