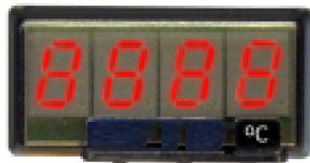


PA201

INSTRUCTIONS MANUAL



DESCRIPTION

TEMPERATURE INDICATOR

For: Pt100 or THERMOCOUPLE J, K, T

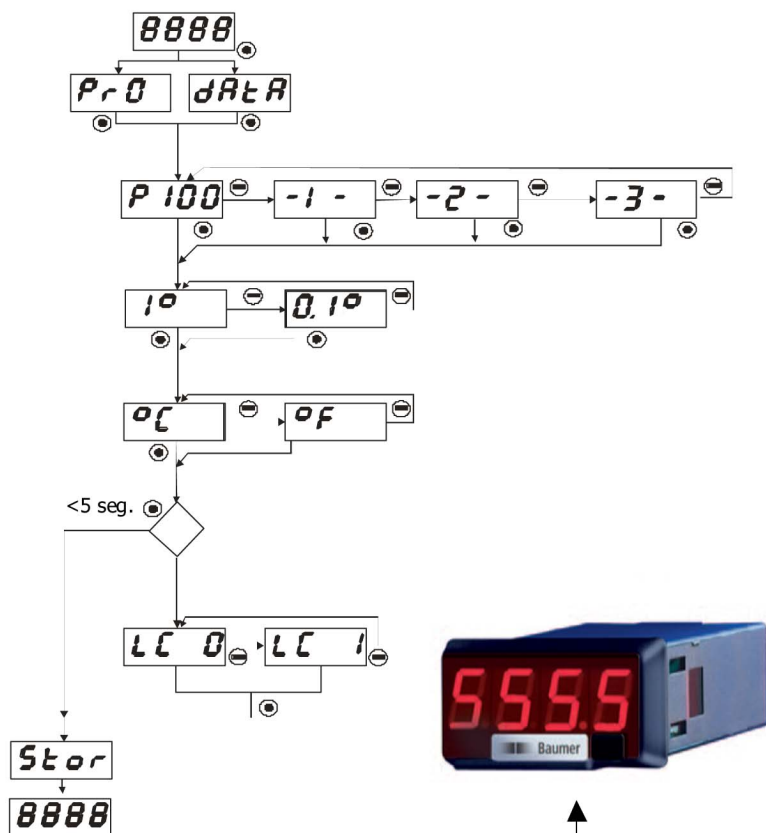
48 x 24 mm frontal

Panel meter temperature measuring in °C or °F with Pt100, thermocouple J, K or T selectable by programming.

Indication in °C or 0.1 °C for Pt 100 program selectable

Three keys keyboard situated on the bottom of the display.

PROGRAMMING



- **ENTER** :To access programming mode and accept values
- ◀ **SHIFT** :In programming mode selects working mode.

Keyboard detail (bottom view)



P 100	Selection to work with Pt100 sensor.
- 1 -	Selection to work with Thermocouple "J" sensor.
- 2 -	Selection to work with Thermocouple "K" sensor.
- 3 -	Selection to work with Thermocouple "T" sensor.
10	Indication with 1 degree resolution
0.10	Indication with 0.1 ° resolution (only available for Pt100)
0C	Indication in degree Centigrade. 0F Indication in degree Fahrenheit
LC 0:	Access to programming unlocked.
LC 1:	Access to programming totally locked.(Shows values as dAtA).



TECHNICAL SPECIFICATIONS

INPUT	Resolution 1°	Resolution 0.1°
Pt100	-200 ... 800 °C -328 ... 1472 °F	-100.0 ... 200.0 °C -148.0 ... 392.0 °F
TC "J"	-50 ... 850 °C -58 ... 1562 °F	
TC "K"	-50 ... 1250 °C -58 ... 2282 °F	
TC "T"	-200 ... 400 °C -328 ... 752 °F	

Pt100 measuring current.....< 1.3 mA
 Linearization (α= 0.0385).....DIN 43760
 Max. Lead resistance.....40 Ω / cable balanced

ACURACY @ 23°C ±5°C	
Pt100 1°	±(0.2% r + 1°C) / ±(0.2% r + 2 °F)
Pt100 0.1°	±(0.2% r + 0.4 °) / ±(0.2% r + 0.7 °F)
TC J, K T	±(0.4% r + 2 °C) / ±(0.4% r + 4 °F)

Cold junction compensation from - 10°C to 60 °C
 Temperature coefficient 100 ppm/°C
 Warm up time 10 minutes

POWER SUPPLY and FUSES (DIN 41661) (no supplied)

PA201.004 85 – 265 VAC 50/60 Hz and 100-300VDC..... F 0.1A/ 250V
 PA201.005 21-53 VAC 50/60Hz and 10,5-70VDC..... F 0.5A/ 250V
 Power 1,8W

CONVERSION

Technical Sigma-Delta
 Resolution ±15 bits
 Rate 25/ s

DISPLAY

Range -1999 ÷ 9999
 Type 4 , 10 mm red digits
 Reading rate 4/s
 Overflow indication 00E

ENVIRONMENTAL

Operating temperature..... -10°C ÷ +60°C
 Storage temperature..... -25°C ÷ +85°C
 Relative humidity (non condensed) <95% ÷ 40°C
 Maximum altitude 2000m.
 Panel sealing..... IP65

MECHANICAL

Dimensions 48 x 24 x 70mm.
 Panel cut-out 45 x 22mm.
 Weight 50 g.
 Case material..... Poly carbonate s/ UL 94 V-0

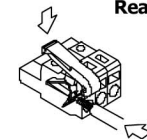
INSTALLATION and WIRING

Power supply



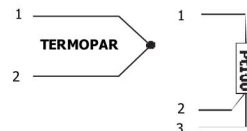
Rear view

Input



Tools cable insertion

SENSORS CONNECTIONS



CONNECTORS

To perform wiring connections, strip the wire leaving from 7 y 10 mm exposed and insert it into the proper terminal while pushing the fingertip down to open the clip inside the connector as indicated in figure.



WARNING

In order to guarantee electromagnetic compatibility, the following guidelines for cable wiring must be followed:

Power supply wires must be routed separated from signal wires. **Never** run power and signal wires in the same conduit.

Use shielded cable for signal wiring and connect the shield to the ground. The cable section must be ≥ 0.25 mm²

INSTALLATION

To meet the requirements of the directive EN61010-1, where the unit is permanently connected to the mains supply it is obligatory to install a circuit breaking device easily reachable by the operator and clearly marked as the disconnect device.

CLEANING: The frontal cover should be cleaned only with a soft cloth soaked in neutral soap product. **DO NOT USE SOLVENTS**



Baumer
 Passion for Sensors