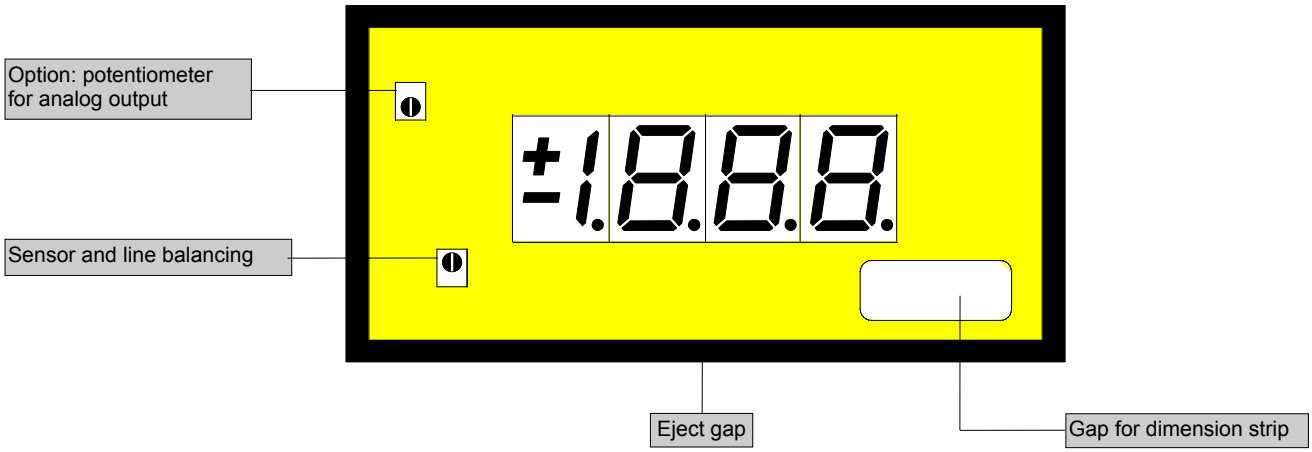
Temperature metering PT1000

- Option: analogue output

- Mounting into panels with thickness up to 50 mm

96x48

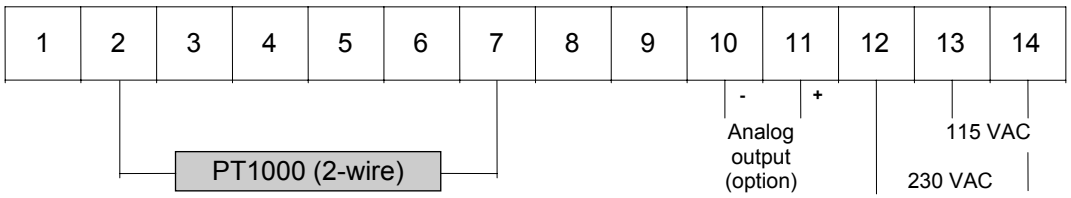
1888



ORDER NUMBER OF TYPE

2 wire **DT 3.602.110C (200°C)**

2 wire **DT 3.606.110C (600°C)**



Power supply 24 VDC **-galvanically insulated-**
(14=plus, 13=minus)

2 wire **DT 3.602.170C (200°C)**

2 wire **DT 3.606.170C (600°C)**

Options

- green LED
- Protection IP54
- Protection IP65
- Analog output 0-10 VDC/10 mA
- Analog output 0-20 mA/load 50 0Ω
- Analog output 4-20 mA/load 500 Ω
- Analog output 0-10 VDC/10 mA *(power supply 24 VDC galvanically insulated)*
- Analog output 0-20 mA/load 500 Ω *(power supply 24 VDC galvanically insulated)*
- Analog output 4-20 mA/load 500 Ω *(power supply 24 VDC galvanically insulated)*
- Analog output with customer specified offset

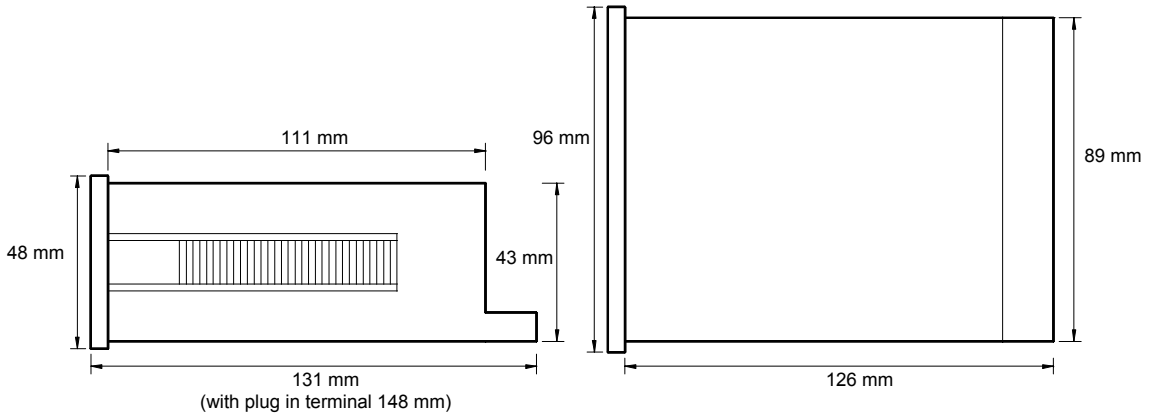
The measuring inputs are not galvanically insulated from the analog output!

- Power supply 24/48 VAC
- PT 100 with 4-wire on demand - connection see PT4.106.1x2
- Setpoints see type PTE 4.xxx.1xx

Technical data, handling

Dimensions	Housing	96 x 48 x 134 mm, including screw terminal
	Assembly cut out	$92.0^{+0.8}$ x $45.0^{+0.6}$ mm
	Fastening	special quick plastic clamp proper to fix in wall thickness up to 50 mm
	Housing material	PC/ABS-plastic blend, colour black, UL94V-0
	Protective system	at the front IP40 connection IP00
	Weight	approx. 0.35 kg
	Connection	at the rear side via terminals up to 2.5 mm^2
Input	PT1000	2-wire
Output	Analogue output	0-10 VDC/1 mA (0.1 % of measuring value, +/-0.05 % of full scale) 0-20 mA, 4-20 mA - load 500 Ohm (0.1 % of measuring value, +/-0.05 % of full scale)
Type		
DT3.6x2.1xxC	Measuring range	-50.0 up to 199.9 °C
	Resolution	0.1 °C
DT3.6x6.1xxC	Measuring range	-100 up to +600 °C
	Resolution	1 °C
	Sensor current	approx. 0.1 mA
Accuracy		
Typ DT3.6xx.1xxB	Measuring fault	$R_L \leq 10\ \Omega$ = +/-1K $R_L > 10\ \Omega \leq 20\ \Omega$ = +/-2K
	Temp. drift	100 ppm/K
	Measuring principle	Dual-Slope-Integration
Power unit	Supply voltage	230/115 VAC +/- 10 % (50-60 Hz), 24 VDC +/-10 % galvanic insulated
	Power consumption	approx. 2 VA
Indication	Display	LED with 7 segments, 14 mm high, red 3½-digit = indication 1999
	Indication time	1 second
	Line break	by showing „**1**“ on the fourth digit
Ambient conditions	Working temperature	0 up to + 60 °C
	Storing temperature	-20 up to + 80 °C

Housing:



CE-sign
For unlimited use of the instrument within the directives for electromagnetic compatibility 89/336/EC measuring wires have to be used with shielded cable and cable's shield connected to earth ground at one end only.

Setting

The unit is adjusted ex works. Later adjustments are necessary in applications with long distance wiring only.

1. Connect the instrument according to the wiring diagram and turn power on.
2. Setting of sensor and line balancing: Remove the front pane using the eject gap.
3. Connect PT1000 simulator and set temperature to 0°C.
4. If necessary deviations on the display have to be corrected with potentiometer for line balancing.