Temperature metering PT1000

- Option: analogue output
- Mounting into panels up to 50 mm

72x36

`1888`

Eject gap

Option: potentiometer for analog output

Sensor and line balancing

Dimension strip to be inserted
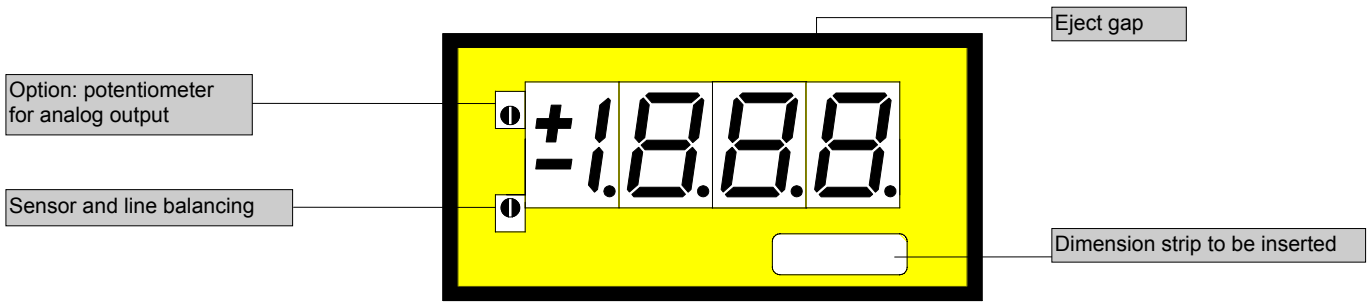
ORDER NUMBER OF TYPE
2 wire **DT 3.602.610B (200°C)**
2 wire **DT 3.606.610B (600°C)**

1	2	3	4	5	6	7	8	9	10	11

PT1000 (2-wire)

- +
Analog-output (option)

115 VAC

230 VAC

Power supply 24 VDC -**galvanic insulated-**
(11=plus, 10=minus)

2 wire **DT 3.602.670B (200°C)**
2 wire **DT 3.606.670B (600°C)**

Options
● green LED
● Protection IP54
Protection IP65 see PTE 4.xxx.6xx
● Analog output 0-10 VDC/10 mA
● Analog output 0-20 mA/load 500 Ω
● 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)*
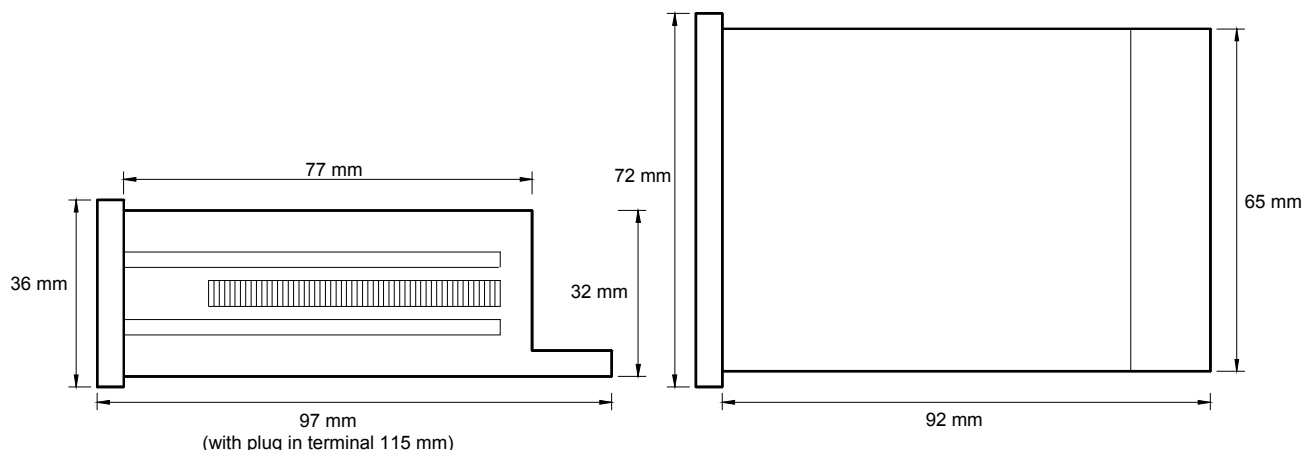●Analog output with customer specified offset
The measuring inputs are not galvanically insulated from the analog output.
● Dimension strip selectable (7 characters max.)
● Other power supplies on demand
● Setpoints see type PTE 4.xxx.6xx

Technical data, handling

Dimensions	Housing	72 x 36 x 97 mm, including screw terminal
	Assembly cut out	$68.0^{+0.7}$ x $33.0^{+0.6}$ mm
	Fastening	special quick plastic clamp proper to fix in wall thickness up to 50 mm
	Housing material	PC/ABS-plastics blend, colour black, UL94V-0
	Protective system	at the front IP40
		connection IP00
	Weight	approx. 0.190 kg
	Connection	at the rear side via terminals up to 2.5 mm^2
Input	PT1000	2-wire
Output	Analogue output	0-10 VDC/10 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		
DT3.6x2.6xxB	Measuring range	-50.0 up to 199.9 °C
	Resolution	0.1 °C
DT3.6x6.6xxB	Measuring range	-100 up to +600 °C
	Resolution	1 °C
	Sensor current	approx. 0.1 mA
Accuracy		
Type DT3.6xx.6xxB	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	max. 5 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	Working temperature	0 up to + 60 °C
conditions	Storing temperature	-20 up to + 80 °C

Housing:

77 mm

72 mm

65 mm

36 mm

32 mm

97 mm
(with plug in terminal 115 mm)

92 mm

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.