

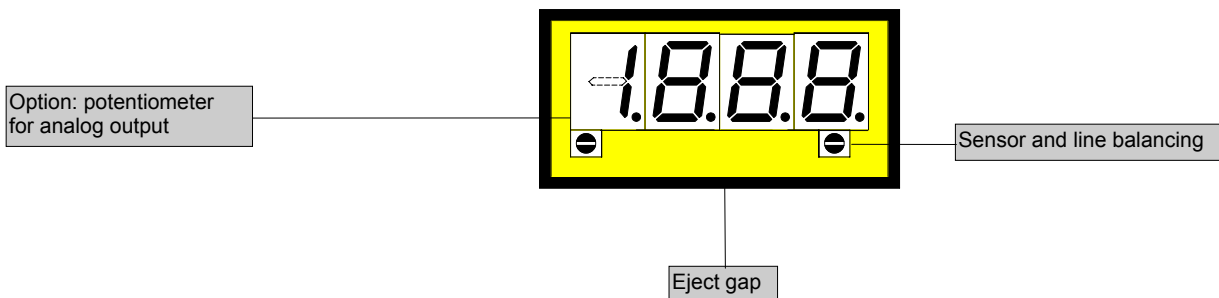
**48x24**

# Temperature metering PT100 Option: analog output

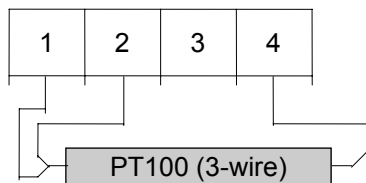
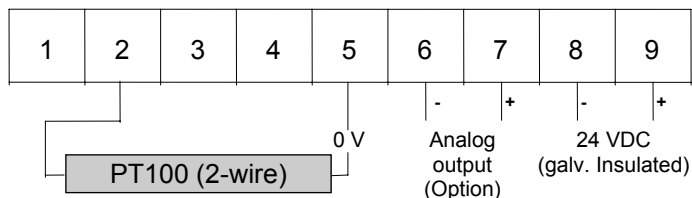
Allow to be placed side by side in grid and mosaics systems

Mounting into panels with thickness up to 50 mm

1888



- ORDER NUMBER OF TYPE
- 2 wire **DT 3.202.776B (200°C)**
  - 2 wire **DT 3.206.776B (600°C)**
  - 3+2 wire **DT 3.302.776B (200°C)**
  - 3+2 wire **DT 3.306.776B (600°C)**



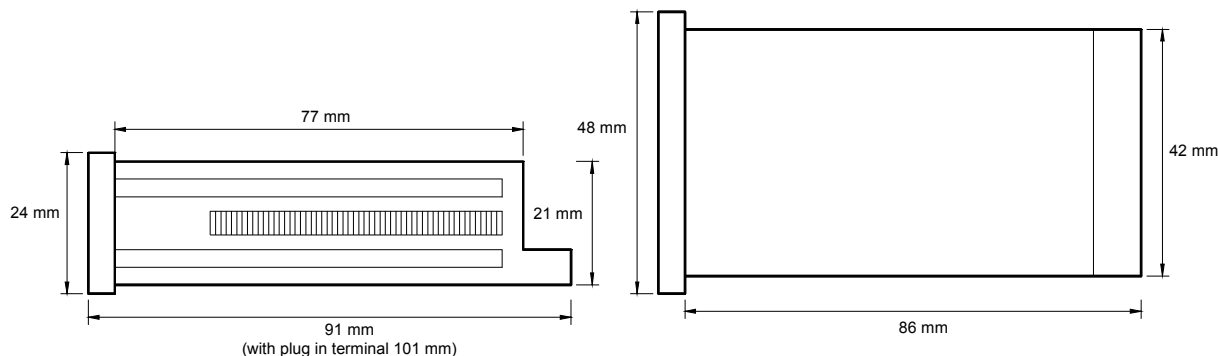
## Options

- Green LED
- Protection IP54
- Protection IP65
- 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 *(supply voltage 24 VDC galvanic insulated)*
- Analog output 0-20 mA/load 500 Ω *(supply voltage 24 VDC galvanic insulated)*
- Analog output 4-20 mA/load 500 Ω *(supply voltage 24 VDC galvanic insulated)*
- Analog output with customer specified offset
- Dimension strip selectable (8 characters max.)
- Set points see type PTE4

# Technical data, handling

<b>Dimensions</b>	Housing	48 x 24 x 90 mm (101 with plug in terminal)
	Assembly cut out	45.0 <sup>+0.6</sup> x 22.2 <sup>+0.3</sup> mm
	Fastening	special quick plastic clamp proper to fix in wall thickness up to 50 mm
	Housing material	PC/ABS-Blend, colour black, UL94V-0
	Protective system	at the front IP40 connection IP00
	Weight	approx. 75 g
	Connection	at the rear side via plug in connector up to 1.5 mm <sup>2</sup>
<b>Input</b>	PT100	2-wire, 3-wire
<b>Output</b>	Analogue output	0-10 VDC/10 mA (0.1 % of measuring value, +/-0.05 % of final value) 0-20 mA, 4-20 mA - load 500 Ohm (0.1% of measuring value, +/-0.05 % of full scale)
	Offset	not changeable, offset analogue output corresponds to 0 digit (valid for both ranges)
	Final value 200°C	10 V or 20 mA adjustable for range from 35.0°C up to 199.9°C
	Final value 600°C	10 V or 20 mA adjustable for range from 190°C up to 600°C <b>(The measuring inputs are not galvanic insulated from the analogue output!)</b>
<b>Type</b>		
<b>DT3.xx2.7xxB</b>	Measuring range	-50.0 up to 199.9 °C
	Resolution	0.1 °C
<b>DT3.xx6.7xxB</b>	Measuring range	-100 up to +600 °C
	Resolution	1 °C
	Sensor current	approx. 1 mA
<b>Accuracy</b>		
<b>DT3.xx2.7xxB</b>	Measuring fault	max. +/- 0.5 °C
<b>DT3.xx6.7xxB</b>	Measuring fault	max. +/- 1 °C
	Temp. drift	100 ppm/K
	Measuring principle	Dual-Slope-Integration
<b>Power unit</b>	Supply voltage	24 VDC +/-10 % galvanic insulated
	Power consumption	approx. 2 VA
<b>Indication</b>	Display	LED with 7 segments, 10 mm high, red 3½-digit = indication 1999
	Indication time	1 second
	Line break	by showing „1“ on the fourth digit
<b>Ambient conditions</b>	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 adjustment 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 PT100 simulator and set temperature to 0°C.
4. If necessary deviations on the display have to be corrected with potentiometer for line balancing.