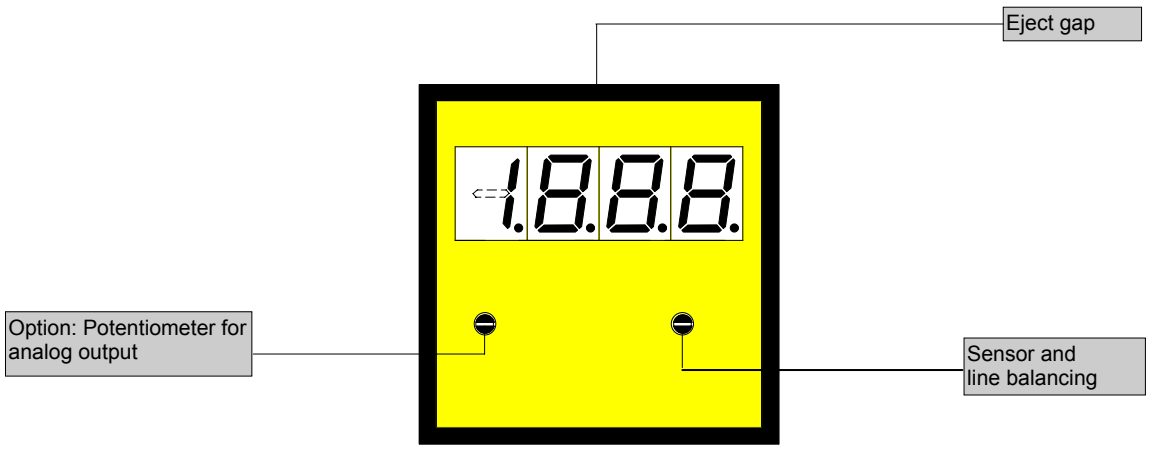
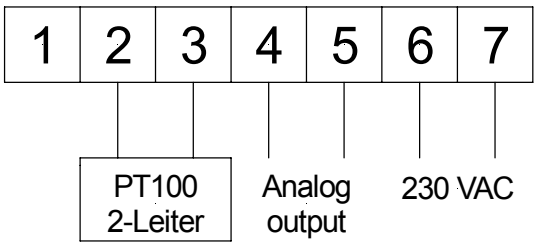
Temperature metering PT100

- Optional analogue output
- Mounting into panels with thickness up to 50 mm.

48x48

1888

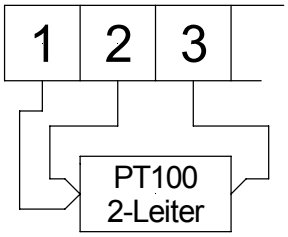




ORDER NUMBER OF TYPE

2 wire	**DT 3.202.850B (200°C)**
2 wire	**DT 3.206.850B (600°C)**
3+2 wire	**DT 3.302.850B (200°C)**
3+2 wire	**DT 3.306.850B (600°C)**

Power supply 24VDC
- galv. insulated - (7=Plus, 6=minus)



2 wire	**DT 3.202.870B (200°C)**
2 wire	**DT 3.206.870B (600°C)**
3+2 wire	**DT 3.302.870B (200°C)**
3+2 wire	**DT 3.306.870B (600°C)**

Options

- Protection IP54
- Protection IP65 **(see reference)**
- Plug in terminal with protection IP40
- Plug in terminal with protection IP54
- Pug in terminal with protection IP65 **(see reference)**

Reference: Plus sign have to be pretended!

- 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

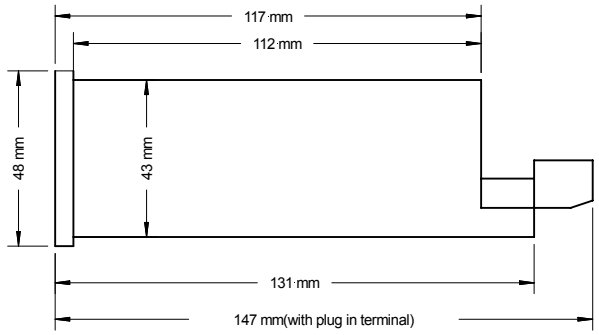
(The measuring inputs are not galvanic insulated from the analogue output!)

- Dimension strip selectable (8 characters max.)
- Other supply voltages on demand

Technical data, handling

Dimensions	Housing	48 x 48 x 131 mm, including screw terminal
	Assembly cut out	$45.0^{+0.6}$ 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-Blend, colour black, UL94V-0
	Protective system	at the front IP40, connection IP40
	Weight	approx. 0.180 kg
	Connection	at the rear side via screw terminal up to 2.5 mm^2
Input	PT100	2-wire, 3-wire
Output	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
		(The measuring inputs are not galvanic insulated from the analogue output!)
Type		
DT3.xx2.8xxB	Measuring range	-50.0 up to 199.9 °C
	Resolution	0.1 °C
DT3.xx6.8xxB	Measuring range	-100 up to +600 °C
	Resolution	1 °C
	Sensor current	approx. 1 mA
Accuracy		
DT3.xx2.8xxB	Measuring fault	max. +/- 0.5 °C
DT3.xx6.8xxB	Measuring fault	max. +/- 1 °C
	Temp. drift	100 ppm/K
	Measuring principle	Dual-Slope-Integration
Power unit	supply voltage	230 VAC (+/- 10 %) 50-60 Hz, 115 VAC (+/- 10 %) 50-60 Hz, 24 VDC (+/-10 %) galvanic insulated
	Power consumption	approx. 2 VA
Indication	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
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.

Important reference!

During attitude as well as in the case of connection in the reverse field of the device, the corresponding precautions are to be taken concerning ESD in order to preclude a harm of the device.

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 PT100 simulator and set temperature to 0°C.
4. If necessary deviations on the display have to be corrected with potentiometer for line balancing.