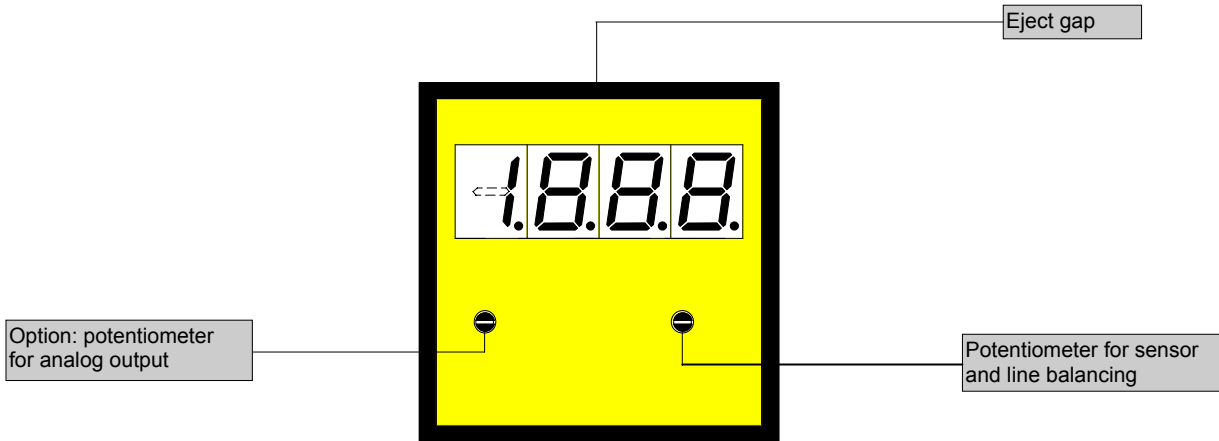


48x48

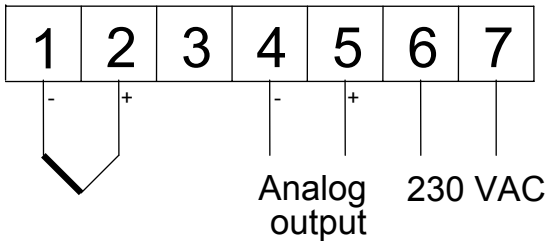
Temperature metering thermocouple

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

1888



ORDER NUMBER OF TYPE
DT 3.40x.850B



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

DT 3.40x.870B

DT 3.4x <u>L</u> .7xx	FeCuNi (DIN)	-50 to + 500°C
DT 3.4x <u>J</u> .7xx	FeCuNi (americ.)	-50 to + 500°C
DT 3.4x <u>K</u> .7xx	NiCrNi	-100 to + 800°C

Options

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

Reference: Plus sign have to be pretended!

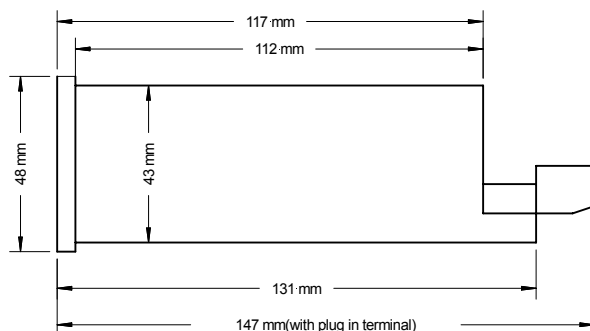
- Analog output 0-10 VDC/10 mA
- Analog output 0-20 mA/load 500 Ω
- Analog output 4-20 mA/load 500 Ω
- Analog output 0-10 VDC/10 mA (power supply 24 VDC galvanically insulated)
- Analog output 0-20 mA/load 500 Ω (power supply 24 VDC galvanically insulated)
- Analog output 4-20 mA/load 500 Ω (power supply 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
Input	Connection	at the rear side via screw terminal up to 2.5 mm ²
	L FeCuNi (DIN)	-50 to + 500 °C
	J FeCuNi (americ.)	-50 to + 500 °C
Output	K NiCrNi	-100 to + 800 °C
	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)
	Offset	not changeable, offset analogue output corresponds to 0 digit (valid for both ranges)
Accuracy	Final value	for 10 V- or 20 mA-output adjustable in a range of 200° up final value
	Resolution	1 °C
	Measuring fault	+/-1% of measuring value, +/-1 digit
	Temp. drift	100 ppm/K
Power unit	Measuring principle	Dual-Slope-Integration
	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 adjustment are necessary in applications with long distance wiring only.

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