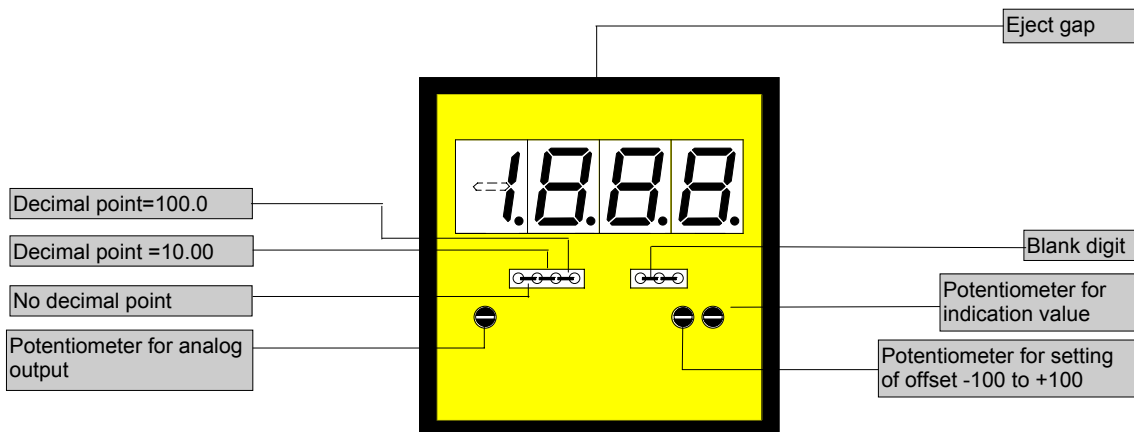


Resistance, potentiometer measurement

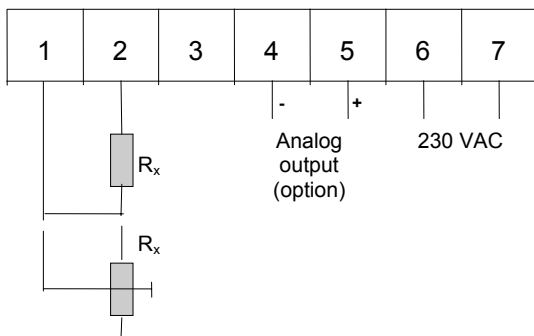
- Optional analogue output
- Mounting into panels with thickness up to 50 mm

1888



ORDER NUMBER OF TYPE

Measuring range 1K Ω - 10K Ω	DV 3.506.850B
Measuring range 10K Ω - 100K Ω	DV 3.606.850B
Measuring range 100K Ω - 1M Ω	DV 3.706.850B



Power supply 24 VDC
 - **galvanic insulated** - (7=plus, 6=minus)

Measuring range 1K Ω - 10K Ω	DV 3.506.870B
Measuring range 10K Ω - 100K Ω	DV 3.606.870B
Measuring range 100K Ω - 1M Ω	DV 3.706.870B

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!

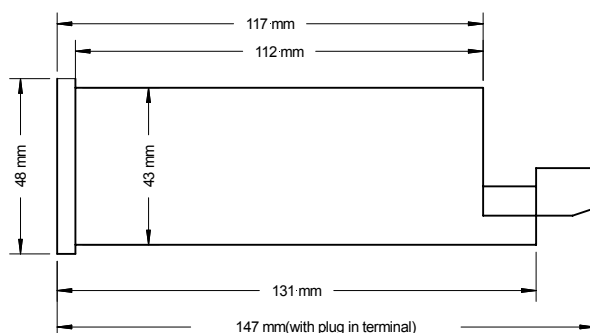
- Analog output 0-10 VDC/10 mA
- Analog output 0-20 mA/load 500 Ω
- Analog output 4-20 mA/load 500 Ω
- Analog output 0-10 VDC/10 mA (power supply 24 VDC galvanically insulated)
- Analog output 0-20 mA/load 500 Ω (power supply 24 VDC galvanically insulated)
- Analog output 4-20 mA/load 500 Ω (power supply 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
	Measuring range	1 K Ω - 10 K Ω 10 K Ω - 100 K Ω 100 K Ω - 1 M Ω offset adjustment supported by offset potentiometer
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 Ω (0.1% of measuring value, +/-0.05% of full scale)
	Offset	fixed on zero point
	Final value	10 V or 20 mA are adjustable for indication range 350 to 1999
		The measuring inputs are not galvanically insulated from the analog output!
Accuracy	Resolution	+/- 1999 digit
	Nonlinearity	+/-0.1% of measuring value, +/- 1 digit
	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
	Overflow	by showing of "1" on the fourth digit
	Decimal point	adjustable by bridging on front side
	Blanking	blanking out of first digit (selectable by bridge)
Ambient conditions	Working temp.	0 up to + 60 °C
	Storing temp.	-20 up to + 80 °C
Housing:		



CE-sign

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

Setting

1. Connect the instrument according to the wiring diagram and turn power on.
2. Setting of indication value: Remove the front pane using the eject gap.
3. Set the resistance value and adjust the desired indication value by means of the potentiometer.
4. In order to achieve maximum value indication of 1999, the following minimum resistance values are required at the various measuring inputs:

Measuring input	1 M Ω	100 K Ω	10 K Ω
Resistance (min)	500 K Ω	50 K Ω	5 K Ω