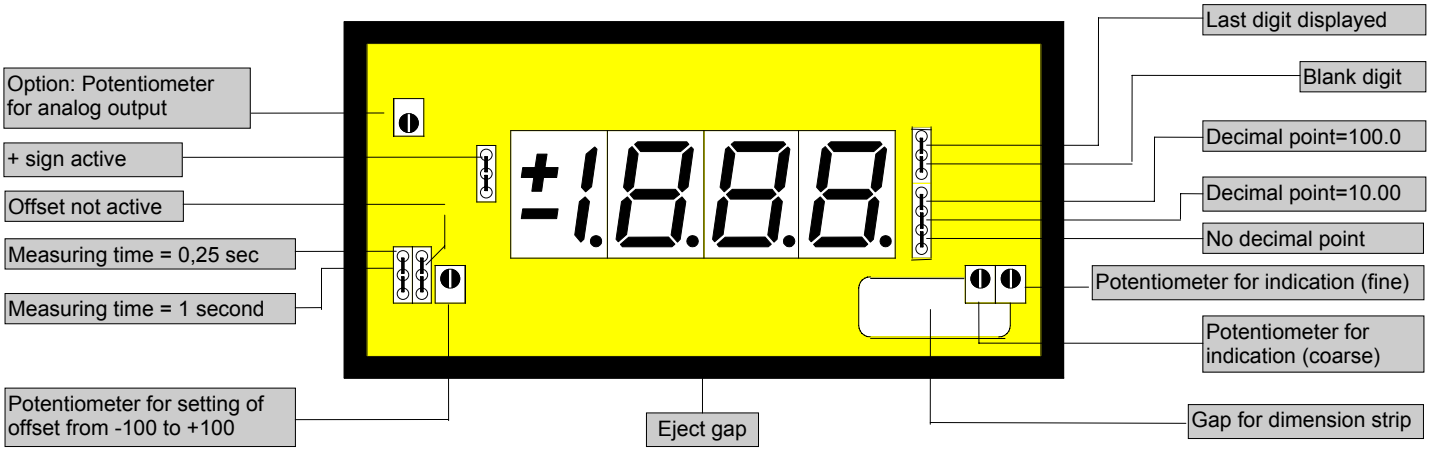
Resistance, potentiometer measurement

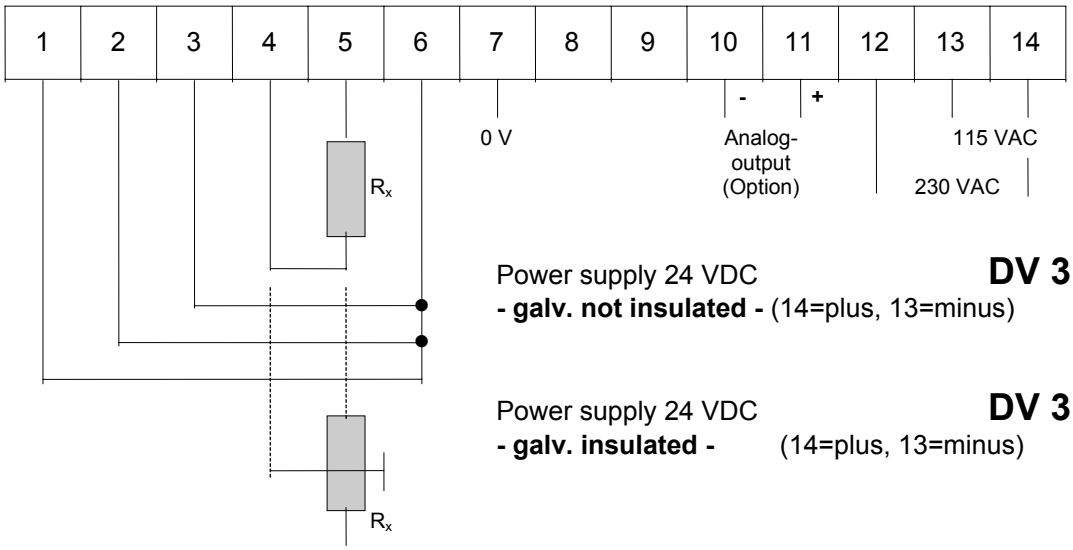
- Optional analogue output
- Mounting into panels with thickness up to 50 mm

96x48

1888



ORDER NUMBER OF TYPE **DV 3.006.110C**



Power supply 24 VDC **DV 3.006.130C**
- galv. not insulated - (14=plus, 13=minus)

Power supply 24 VDC **DV 3.006.170C**
- galv. insulated - (14=plus, 13=minus)

Measuring range	Bridge from terminal to terminal
100 KΩ up to 1 MΩ	from 1 to 6
10 KΩ up to 100 KΩ	from 2 to 6
1 KΩ up to 10 KΩ	from 3 to 6

Options

- Green LED
- 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, blank digit, measuring rate, offset have to be pretented!

- 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/10mA *(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

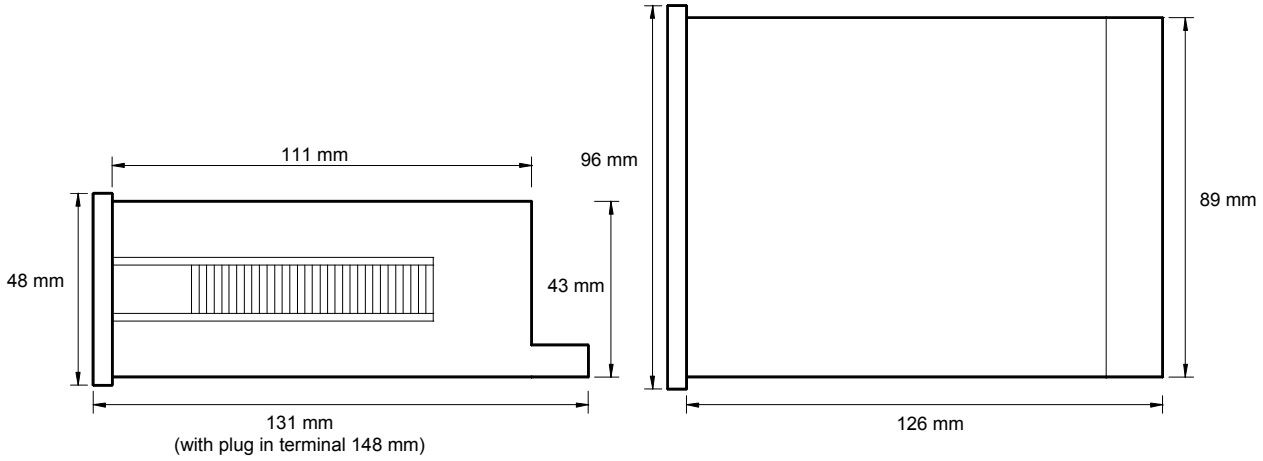
The measuring inputs are not galvanically insulated from the analog output!

- Power supply 24/48 VAC
- Setpoints see type PVE4.0x6.1xx

Technical data, handling

Dimensions	Housing	96 x 48 x 134 mm, including screw terminal
	Assembly cut out	$92.0^{+0.8}$ 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-plastic blend, colour black, UL94V-0
	Protective system	at the front IP40 connection IP00
	Weight	approx. 0.35 kg
	Connection	at the rear side via terminals up to 2.5 mm^2
Input	Measuring range	1 KΩ - 10 KΩ 10 KΩ - 100 KΩ 100 KΩ - 1 MΩ offset adjustment supported by offset potentiometer all ranges are selectable via connection terminal
	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)
Accuracy	Resolution	+/- 1999 digit
	Nonlinearity	+/-0.1 % of measuring value, +/- 1 digit
	Temperature drift	100 ppm/K
	Measuring principle	Dual-Slope-Integration
Power Unit	Supply voltage	230/115 VAC +/- 10 % (50-60 Hz), 24 VDC (18-30 V), 24 VDC (+/-10 % galvanic insulated)
	Power consumption	approx. 5 VA
Indication	Display	LED with 7 segments, 14 mm high, red 3½-digit = indication 1999
	Measuring time	selectable 0.25 and 1 second
	Overflow	by showing "**1**" on the fourth digit
	Decimal point	adjustable by bridging on front side
	Blanking	blanking out of last digit (selectable by bridge)
	Plus-sign	selectable by bridging on front side
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 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 MΩ	100 KΩ	10 KΩ
Resistance (min)	500 KΩ	50 KΩ	5 KΩ