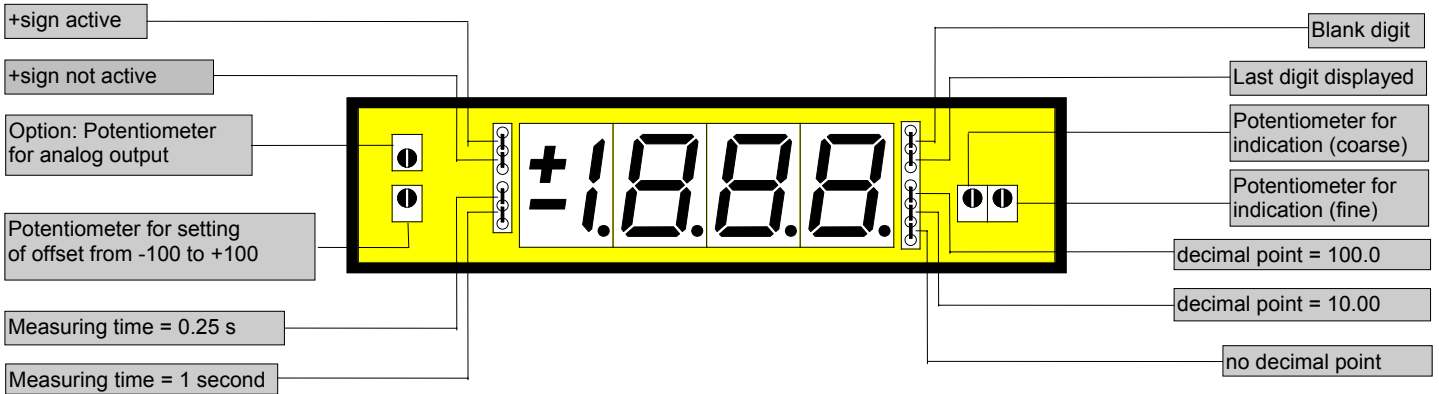


Direct voltage 60 mV – 150 mV – 300 mV – 1 V

- Option: analogue output
- Allows to be placed side by side in grid and mosaics systems
- Mounting into panels with thickness up to 50 mm

96x24

1888



ORDER NUMBER OF TYPE **DV 3.002.310B**

1	2	3	4	5	6	7	8	9	10	11	12	13	14
60 mV	150 mV	300 mV	1 V			0 V			-	+		115 VAC	
									Analog-output (option)			230 VAC	

Power supply 24 VDC **DV 3.002.330B**
 - galvanic not insulated - (14=plus, 13=minus)

Power supply 24 VDC **DV 3.002.370B**
 - galvanic insulated - (14=plus, 13=minus)

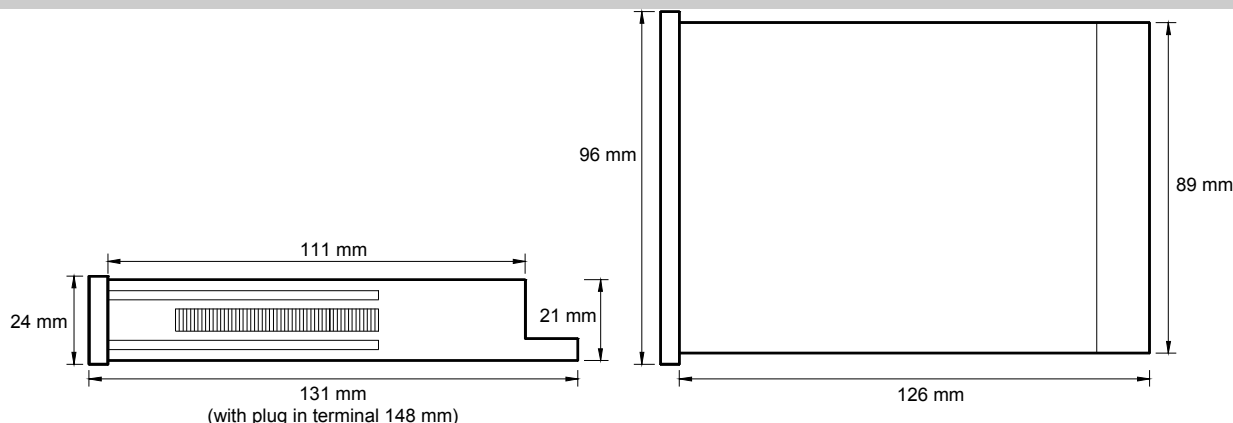
Options

- 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: Decimal point, plus sign, blank digit, measuring time 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 galvanic insulated)
- Analog output 0-20 mA/load 500 Ω (power supply 24 VDC galvanic insulated)
- Analog output 4-20 mA/load 500 Ω (power supply 24 VDC galvanic insulated)
- Analog output with customer specified offset
- The measuring inputs are not galvanic insulated from the analog output!**
- Power supplies 24/48 VAC
- Relay contacts see type PVE4.0x2.3xx

Technical data, handling

Dimensions	Housing	96 x 24 x 131 mm, including screw terminal
	Assembly cut out	92.0 ^{+0.8} x 22.0 ^{+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 IP 40 connection IP00
	Weight	approx. 0.290 kg
	Connection	at the rear side via terminals up to 2.5 mm ²
Input	Measuring range	0-60 mV, 150 mV, 300 mV, 1 V all ranges are selectable via connection terminal / offset adjustment supported by offset potentiometer
	Input resistance	Ri with 60 mV = 15 KΩ 300 mV = 75 KΩ 150 mV = 39 KΩ 1 V = 220 KΩ
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 Ohm (0.1 % of measuring value, +/-0.05 % of full scale)
	Accuracy	Resolution +/- 1999 digit Nonlinearity +/-0.1 % of measuring value, +/- 1 digit Temp. drift 150 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. Adjustment of indication value: Detach the front pane with a small screwdriver leading between front panel and housing frame.
3. Set the maximum input voltage and adjust the desired indication value by means of the potentiometer.
4. In order to achieve maximum value indication of 1999, the following minimum input voltages are required at the various measuring inputs:

Measuring input	60 mV	150 mV	300 mV	1 V
U min	30 mV	60 mV	150 mV	300 mV
U max	80 mV	180 mV	360 mV	1.2 V

5. With input voltages smaller than U_{min}, maximum value indication is not available!