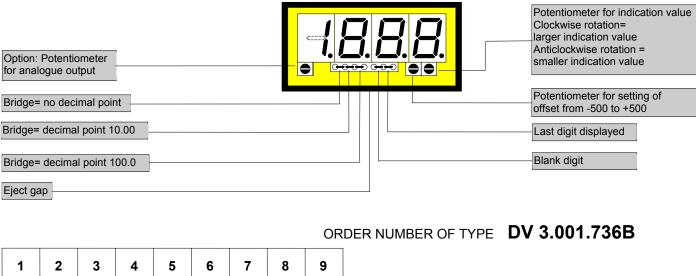
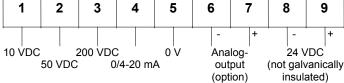
Direct voltage, direct current Option: Analogue output

- Allows to be placed side by side in grid and mosaics systems

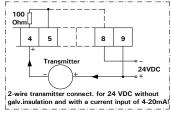
- Mounting into panels with thickness up to 50 mm







Transmitter connection



Power supply 24 VDC - galvanically insulated (9=plus, 8=minus)

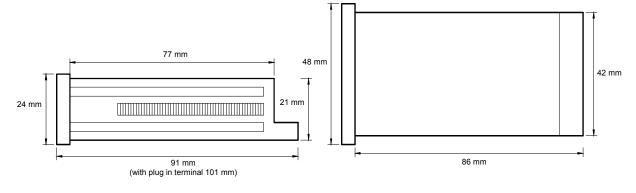
DV 3.001.776B

Options

- green LED
- Protection: IP54
- Protection: IP65 (see reference)
- Reference: Decimal point and blank digit have to be pretended!
- Analog output 0-10 VDC/10 mA
- Analog output 0-20 mA /load 500 Ω
- \bullet 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
- Dimension strip selectable (8 characters max.)
- Set points see type PVE 4.001.7xx

Technical data, handling

Dimensions	Housing Assembly cut out Fastening Housing material Protective system Weight Connection	48 x 24 x 91 mm 45.0 ^{+0.6} x 22.2 ^{+0.3} mm special quick plastic clamp proper to fix in wall thickness up to 50 mm PC/ABS-blend, colour black, UL94V-0 at the front IP40 connection IP00 approx. 75 g at the rear side via plug in connector up to 1.5 mm ²
Input	Measuring range	0-10 V, 50 V, 200 V, 0-20 mA - 4-20 mA - offset adjustment supported by offset potentiometer all ranges are selectable via connection terminal Ri with 10 V = 93 K Ω 200 V = 2.2 M Ω 50 V = 550 K Ω 20 mA = 100 Ω
Output	Analogue output Offset Final value	 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) fixed on zero point 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 Nonlinearity Temp. drift Measuring principle	+/- 1999 digit +/- 0.1% of measuring value, +/- 1 digit 100 ppm/K Dual-Slope-Integration
Power Unit	Supply voltage Power consumption	24 VDC (18-30 V) not galvanic insulated, 24 VDC +/-10 % galvanic insulated approx. 2 VA
Indication	Display Overflow Decimal point Blanking Indication time	LED with 7 segments, 10 mm high, red 3½-digit = indication 1999 by showing of "1" on the fourth digit adjustable by bridging on front side blanking out of first digit (selectable by bridge) 1 second
Ambient conditions Housing:	Working temp. Storing temp.	0 up to + 60 °C -20 up to + 80 °C



<u>CE-sign</u> 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 maximum input voltage/current 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	10 V	50 V	200 V	20 mA
U/I min	2.0 V	10 V	40 V	15.5 mA
U/I max	20 V	100 V	400 V	25 mA

5. With input voltages smaller than U/I min, maximum value indication is not available!

- 6. Example of offset calculation for open measuring input:
 - AA = initial indication value (-200) MA = initial measuring value (2 V) AE = final indication value (600)
 - ME = final measuring value (10 V)
- 7. Simplified calculation with 4-20 mA: (only for indication 0=4 mA)

	_	
$Offset = AA - \left(\frac{AE - AA}{ME - MA}\right) \times MA$		Offset =

600-(-200) × 2V = -400 -200-(10V – 2V)

AE Offset = 4

Observe the operational sign!