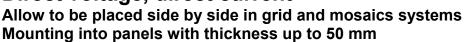
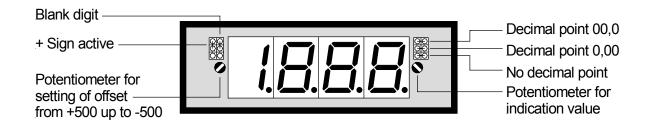
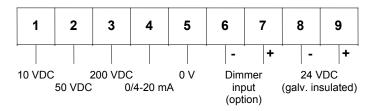
Direct voltage, direct current

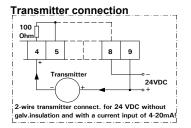






ORDER NUMBER OF TYPE DV 3.001.570B





Options

- Protection IP54 screw terminal standard
- Protection IP65 screw terminal standard (see reference)
- Protection IP54 plug in termial
- Protection IP65 plug in terminal (see reference)

Reference: Decimal point, plus sign and blank digit have to be pretended!

Brightness control with DIM device

Technical data, handling

Dimensions	Housing	72 x 24 x 99 mm (WxHxD), with screw terminal (D = 106 mm including plug in terminal)
	Assembly cut out	68 ^{+0.7} x 22.2 ^{+0.3} mm (WxH)

Fastening special quick plastic clamp proper to fix in wall thickness up to 50 mm

PC/ABS-plastics blend, colour black, UL94V-0 Housing material Protective system at the front IP40

connection IP00 approx. 110 g

Weight Connection at the rear side via terminals up to 2.5 mm²

0-10 V, 50 V, 200 V, 0-20 mA - 4-20 mA supported by offset potentiometer Input Measuring range

all ranges are selectable via connection terminal Input resistance 10 V = 93 KΩ 200 V = 2.2 MΩ

50 V = 550 KΩ 20 mA = 100 Ω brightness control with DIM device (option)

Indication control Accuracy Resolution +/- 1999 Digit

+/-0.1% of measuring value, +/- 1 digit Measuring fault

Temp. drift 100 ppm/K

Measuring principle **Dual-Slope-Integration**

24 VDC +/-10 % galvanic insulated Power unit Supply voltage

approx. 2 VA Power consumption

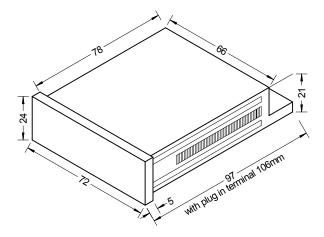
Indication Display 7-Segment-LED, 14 mm high, red 3½-digit = indication 1999

> Overflow by showing of "1" on the fourth digit Decimal point adjustable by bridging on front side

blanking out of first digit (selectable by bridge) Blanking Plus sign adjustable by bridging on front side

Indication time 1 second Working temperature 0 up to + 60 °C - 20 up to + 80°C Storing temperature

Ambient conditions 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 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)

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

Offset =
$$-200 - \left(\frac{600 - (-200)}{(10V - 2V)}\right) \times 2V = -400$$

7. Simplified calculation with 4-20 mA: (only for indication 0=4 mA)

Offset =
$$-\left(\frac{AE}{4}\right)$$

Observe the operational sign!