



**Digital panel meter
4½-digit**

DV4

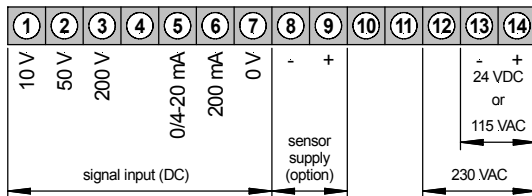
- Without setpoints
- Sensor supply

Digital panel meter

- Direct voltage
- Direct current



• Direct voltage, direct current



Transmitter connections see page 12

Power supply 230/115 VAC

Power supply 24 VDC

Power supply 24 VDC (galv. insulated)

ORDER NUMBER OF TYPE
(without options)

EUR

DV 4.001.110C

184,05

DV 4.001.130C

184,05

DV 4.001.170C

209,60

OPTIONS

OPTIONS	DV 4.001... Direct voltage	Additional price
		EUR
Green LED	x	
Protection IP54 at the front	x	6,15
Protection IP65 at the front (<i>see following table</i>)	x	28,10
Plug in terminal	x	12,25
Sensor supply 24 VDC/50 mA (power supply 230/115 VAC and 24 VDC)	x	24,55
Sensor supply 10 VDC/20 mA (power supply 230/115 VAC and 24 VDC)	x	24,55
Sensor supply 24 VDC/50 mA (power supply 24 VDC galvanic insulated)	x	35,80
Sensor supply 10 VDC/20 mA (power supply 24 VDC galvanic insulated)	x	35,80
Sensor supply 24 VDC/100 mA (power supply 230/115 VAC and 24 VDC galvanic insulated)	x	56,25
Sensor supply 10 VDC/120 mA (power supply 230/115 VAC and 24 VDC galvanic insulated)	x	56,25
<i>With supply voltage AC and DC (galvanic insulated) the sensor supply is galvanic insulated from the measuring input!</i>		
Measuring input 0-1 mA (1=Plus and 7= Minus) - S10	x	15,35
Power supply 24/48 VAC	x	10,25
Dimension strips selectable	x	
Other power supply on demand	x	

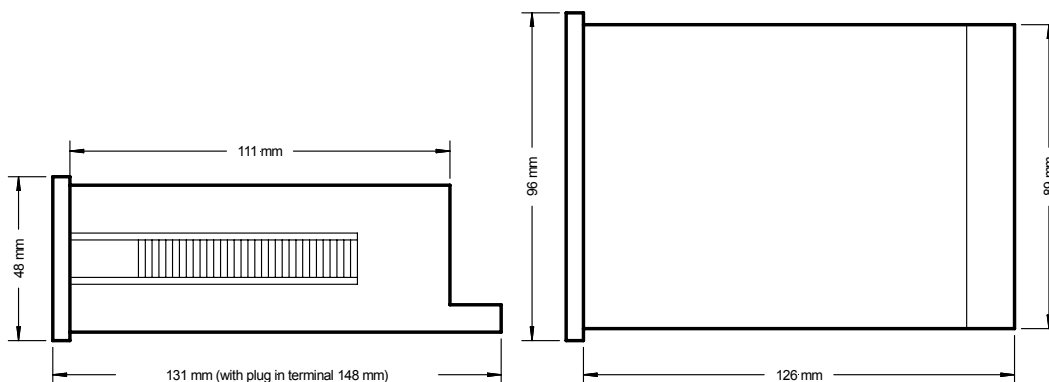
• Settings ex works with protective system IP65, adjustable on rear side

Settings deviating from the standard settings must be indicated in the order description.	Standard	As desired	DV 4.001... Direct voltage
Plus sign	active	inactive	x
Blanking	no	yes	x

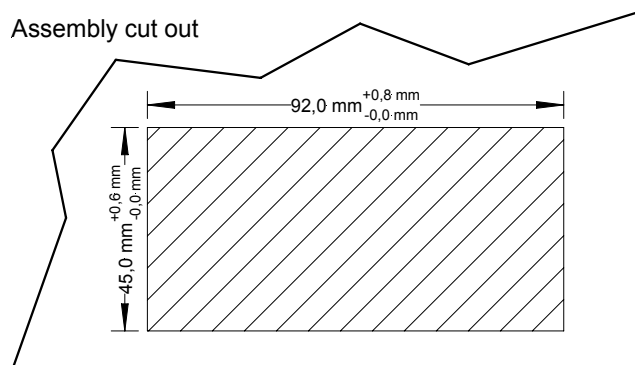
Technical data

Dimensions	Housing	W 96 x H 48 x D 134 mm, including screw terminal (D = 148 mm, including plug in 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-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	0-10 V, 50 V, 200 V, 0/4-20 mA, 0-200 mA - all ranges are selectable via connection terminal Offset adjustment supported by offset potentiometer and active bridge (-5000 up to +1000)
	Input resistance	Ri with 10 V = ~55 kΩ 20 mA = ~100 Ω 50 V = ~290 kΩ 200 mA = ~10 Ω 200 V = ~1.8 MΩ
Output	Sensor supply	(galv. insulated for 230/115 VAC and 24 VDC/DC from the measuring input) 24 VDC/50 mA – 10 VDC/20 mA (other sensor supplies/performances on demand)
Accuracy	Resolution	+/-19999 digit
	Measuring fault	+/-0.1% of measuring value, +/-0.05 of final value
	Temp. drift	50 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%) galv. insulated
	Power consumption	max. 5 VA
Indication	Display	LED with 7 segments, 14 mm high, red 4½-digit = indication 19999
	Overflow	4 blinking „0000“
	Measuring time	1 second
	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:



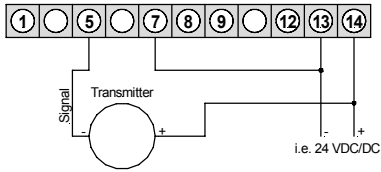
Assembly cut out



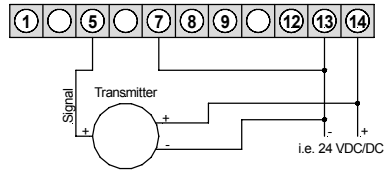
Connection diagrams

DV instruments without sensor supply

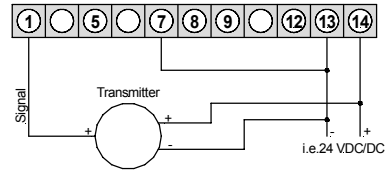
2-wire: 4-20 mA



3-wire: 0-20 mA
4-20 mA

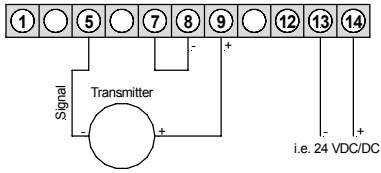


3-wire: 0-10 V / 0-5 V
0-1 V / 1-6 V

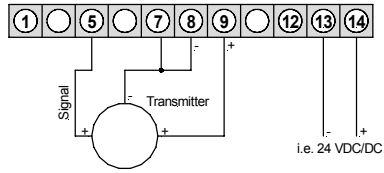


DV instruments with sensor supply

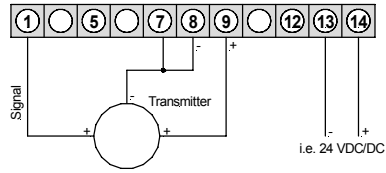
2-wire: 4-20 mA



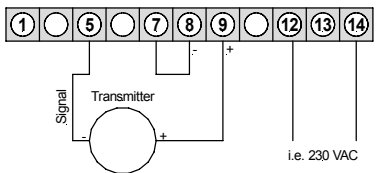
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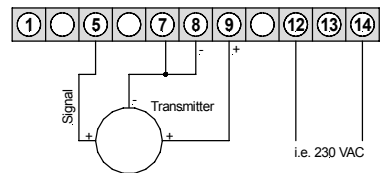
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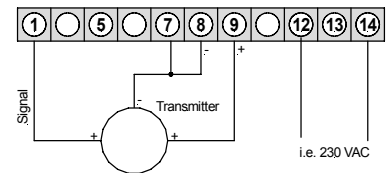
2-wire: 4-20 mA



3-wire: 0-20 mA
4-20 mA



3-wire: 0-10 V / 0-5 V
0-1 V / 1-6 V



Ordering code DV3, DT3

Digital panel meter

		D	V	3	0	0	1	1	1	0	C		
Basic model												Internal index	
Voltage metering												Mechanical options	
Temperature metering												0 Standard IP40	
												1 Protection IP65	
												3 Protection IP54	
												5 Plug in terminal, protection IP54	
												6 Plug in terminal, protection IP40	
												7 Plug in terminal, protection IP65	
Number of digits												Power supply	
3½ digits												1 230/115 VAC	
4½ digits												3 24 VDC	
												7 24 VDC (galvanic insulated)	
Sensor supply												Size of housing	
No sensor supply												1 96x48	
10 V/50 mA													
24 V/50 mA													
Temperature device												Measuring input	
PT100-2 wire												1 Direct voltage, direct current	
PT100-3 wire												2 Direct voltage, shunt measuring	
PT1000-2 wire												4 Alternating voltage, current	
Thermocouple												6 Resistance	
												2 Range PT100 (200°C) – for DT	
												6 Range PT100 (600°C) – for DT	
												L Thermocouple type L – forDT	
												J Thermocouple type J – for DT	
												K Thermocouple type K – for DT	
Alternating voltage, current													
Standard													
True effective RMS													
Outputs													
No output													
0-10 V													
0-20 mA													
4-20 mA													