Direct voltage, direct current

- Option: sensor supply

- Mounting into panels with thickness up to 50 mm



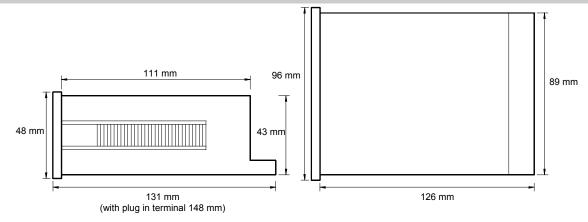
+sign r	not active	;												
+sign a	aktive			┐│▋										
Decima	al point =	10.000				A -			<u> </u>		2			Last digit displayed
Decima	al point=	100.00			(P		¦	-1	_		¦ <i> </i> -			Blank digit
No dec	cimal poir	nt					•	 *• *			'• '		0	
decima	al point=1	0.000												Gap for dimension strip
cation	iometer f larger inc 5000 to +	dication						Eje	ect gap					Fine adjustment potentiometer
	iometer fo smaller ir													Coarse adjustment potentiometer
								0	RDER I	NUMBEF	R OF TY	PE	D١	/ 4.001.110C
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
·		1				1	-	+	•	•	·		·	-
10 VD0	50 VDC	200 VD0	C 0	/4-20 m	A 200 mA	0 V	sup	nsor oply tion)				115 230 VA	5 VAC	
	nitter co	nnectio	<u>n</u>	<u>-</u>										
100 Ohm 5	7	13	14		- galv.	supply not in us, 13:	sulate	ed -					DV 4	4.001.130C
	nsmitter conr				Power	supply insulations, 13	y 24 V ated -	DC					DV 4	4.001.170C

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 have to be pretended!
- Sensor supply 24 VDC/50 mA
- Sensor supply 10 VDC/20 mA
- Sensor supply 24 VDC/50 mA
 - (power supply 24 VDC galvanically insulated) (power supply 24 VDC galvanically insulated)
- Sensor supply 10 VDC/20 mA
 Sensor supply 24 VDC/100 mA
- Sensor supply 10 VDC/120 mA
- With supply voltage AC and (DC galvanically insulated) the sensor supply is galvanically insulated from the measuring input!
- Measuring input 0-1 mA (1=plus and 7=minus)
- Power supplies 24/48 VAC

Technical data, handling

Dimensions	Housing Assembly cut out Fastening Housing material Protective system Weight Connection	96 x 48 x 134 mm, including screw terminal 92.0 ^{+0.8} x 45.0 ^{+0.6} mm special quick plastic clamp proper to fix in wall thickness up to 50 mm PC/ABS-plastic blend, colour black, UL94V-0 at the front IP40, connection IP00 approx. 0.35 kg 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 mÅ, 0-200 mÅ - offset adjustment supported by offset potentiometer and active bridge All ranges are selectable via connection terminal Ri with 10 V = $55 \text{ K}\Omega$ 20 mÅ = 100Ω $50 \text{ V} = 290 \text{ K}\Omega$ 200 mÅ = 10Ω $200 \text{ V} = 1.8 \text{ M}\Omega$
Output	Sensor supply	24 VDC/50 mA – 10 VDC/20 mA (other sensor supplies/performances on demand)
Accuracy	Resolution Nonlinearity Temp. drift Measuring principle	+/- 19999 digit +/-0.1% of measuring value, +0.05% of final value 50 ppm/K Dual-Slope-Integration
Power Unit	Supply voltage Power consumption	230/115 VAC +/- 10 % (50-60 Hz), 24 VDC (18-30 V), 24 VDC +/-10 % galvanic insulated approx. 5 VA
Indication	Display Overflow Decimal point Blanking Plus-sign Indication time	LED with 7 segments, 14 mm high, red 4½-digit = indication 19999 blinking "0000" adjustable by bridging on front side blanking out of last digit (selectable by bridge) selectable by bridging on front side 1 second
Ambient	Working temperature	0 up to + 60 °C
conditions	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 for unlimited use of the instrument within the directives for electromagnetic connected to earth ground at one end only.

Setting

inputs:

- 1. Connect the instrument according to the wiring diagram and turn power on.
- 2. Adjustment of indication value: Remove the front pane by 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 19999, the following minimum input voltages are required at the various measuring

Measuring input	10 V	50 V	200 V	20 mA	200 mA
U/I min	3.5 V	17 V	68 V	15.5 mA	155 mA
U/I max	20 V	100 V	400 V	25 mA	240 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)

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

$Offset = -200 - \left(\frac{600 - (-200)}{(10V - 2V)}\right) \times 2V = -4$

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

AE Offset = 4

Observe the operational sign!