- Option: sensor supply
- Mounting into panels with thickness up to 50 mm


ORDER NUMBER OF TYPE
DV 4.001.110C

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $10 \mathrm{VDC} \underset{50 \mathrm{VDC}}{200 \mathrm{VDC}}$ |  |  |  | $0 / 4-20 \mathrm{~mA} \quad 200 \mathrm{~mA}$ |  |  | Sensor supply (option) |  |  |  |  | 115 VAC <br> 230 VAC |  |

Transmitter connection


Power supply 24 VDC
DV 4.001.130C

- galv. not insulated (14=plus, 13=minus)
Power supply 24 VDC
DV 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 $10 \mathrm{VDC} / 20 \mathrm{~mA}$
- Sensor supply 24 VDC/50 mA
(power supply 24 VDC galvanically insulated)
- Sensor supply 10 VDC/20 mA (power supply 24 VDC galvanically insulated)
- 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



## Setting

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 inputs:

| Measuring input | 10 V | 50 V | 200 V | 20 mA | 200 mA |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathrm{U} / \mathrm{Im} \mathrm{min}$ | 3.5 V | 17 V | 68 V | 15.5 mA | 155 mA |
| $\mathrm{U} / \mathrm{I} \mathrm{max}$ | 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:
$A A=$ initial indication value (-200)
$\mathrm{MA}=$ initial measuring value ( $\mathbf{2} \mathbf{V}$ )
$A E=$ final indication value (600)
$\mathrm{ME}=$ final measuring value ( 10 V )

$$
\text { Offset }=A A-\left(\frac{A E-A A}{M E-M A}\right) \times M A
$$

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

7. Simplified calculation with 4-20 mA: (only for indication $0=4 \mathrm{~mA}$ )

$$
\text { Offset }=-\left(\frac{A E}{4}\right)
$$

Observe the operational sign!

