

## Measuring transducers

**VI 400** for DC current

**VU 400** for DC voltage

VI 400 and VU 400 are transducers converting measured quantities of current and voltage into a proportional load independent DC signal.

The output signal can be connected to one or several receiving instruments such as panel indicators, recorders, controllers etc. The transducers have galvanic separation between in- and output and auxiliary supply.

The transducers in plastic case are mounted directly on profiled bar 35 EN 50022. Connection to selfopening clamps for max 6 mm<sup>2</sup> wires. Transducers for mounting in 19" racks can be delivered in different application types (see special leaflet). The rack modules are 8TE wide and in a 19" rack is place for 10 modules.

The transducers are manufactured according to IEC688.

### Order facts:

Enclosed for mounting on profiled bar 35 EN 50022	19" rack modul (wide 8 TE)	
<b>Type</b>	<b>Type</b>	
<b>VI 400L-15x</b>	<b>VI 400R-15x</b>	
<b>VU 400L-15x</b>	<b>VU 400R-15x</b>	
Replace <b>x</b> with last digit for output according to table below		
Output	External resistance load	Last digit <b>x</b>
0 - 5 ± 5 mA	0-3000 Ω	<b>1</b>
0 -10 ± 10 mA	0-1500 Ω	<b>2</b>
0 -20 ± 20 mA	0- 750 Ω	<b>3</b>
4 -20 mA	0- 750 Ω	<b>4</b>
0 -10 ± 10 V	> 700 Ω	<b>5</b>

### Order form:

Measuring transducer for DC voltage  
 Type **VU 400L-153**  
 Measuring range 0-250 VDC  
 Output 0-20 mA  
 Power supply 230 V, 50 Hz  
 Mounting on DIN-rail

## Technical data

### Input VI 400

Range min 0 - 0,5 mA (± 0,25 mA)  
 max 0 - 250 mA (± 250 mA)  
 Input impedance voltage drop 1V (50 Ω at 20 mA)  
 Overload capacity  $3 \times I_{in}$  continuously,  $8 \times I_{in}$ , 1 s  
 (max 750 mA)

### Input VU 400

Range 0-60 mV to 0-500 V or ±30 mV to ±500 V  
 (rack version max 300 V)  
 Input impedance 10 kΩ/V  
 Overload capacity  $< 3 V, 3 \times U_{in}$  continuously  
 $< 3 V, 10 \times U_{in}$ , 1 s  
 $> 3 V, 3 \times U_{in}$ , 1 s

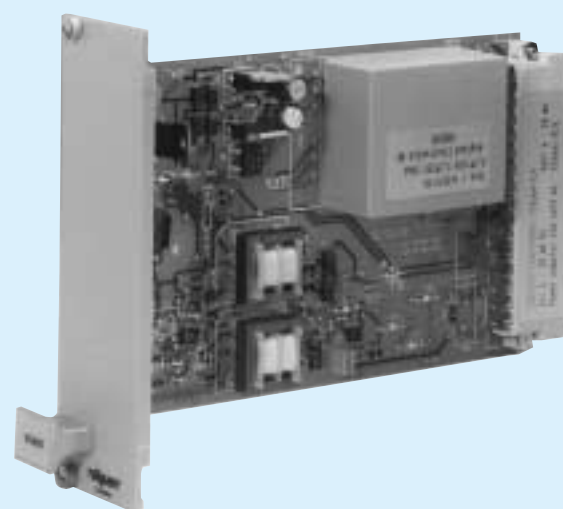
### Output

Output signal (span) min 0-1 mA, max 0-20 mA  
 Range 0...5/10/20, 4-20 mA  
 Load max 15 V  
 Current limitation < 30 mA  
 Voltage 0-10 V  
 Burden > 700 Ω  
 Ripple < 1% p.p.

VI400FA



VI400-FB



## General data

Accuracy < 0,2%  
 Linearity error < 0,1%  
 Response time 0-90% < 30 ms  
 Temperature influence < 0,1%/10°C  
 Temperature range -25...+60°C operation  
 -40...+70°C storage  
 Test voltage 5,6 kV, 50 Hz, 1 min (rack version 3,7 kV)  
 Power supply 24, 110, 230 VAC ± 15%, 47-70 Hz, ca 2 VA  
 24-130 VDC ± 20%, ca 2,5 W  
 Weight 0,4 kg

### Options in request

## Standards

General standards for measuring transducers EN 60688, IEC 688  
 EMC emission EN 50081-2  
 Immunity EN 50082-2\*)  
 Safety EN 61010-1, IEC 1010-1  
 Inputs overvoltage cat III  
 Outputs overvoltage cat II  
 Pollution degree 2

\*) At certain frequencies can minor deviations from class accuracy occur during the disturbance