

Measuring transducers

I 480 for alternating current **U 480** for alternating voltage

(with or without suppressed initial range)

U 484 for alternating voltage

(designed to withstand nominal voltage e.g. 0-15 V, withstand 110 V).

I 480, U 480 and U 484 are transducers converting a sinusoidal AC current/voltage into a load independent DC signal proportional to the measured value that can be connected to one or several receiving instruments such as indicators, recorders, controllers etc.

The transducers measure rectified average value and show effective value at sine wave-form. They work with auxiliary power and have galvanic separation between input, output and power

The rack modules can be delivered with a single transducer or with two transducers (double) in each 8 TE module. In a 19" rack there is place for 10 modules. The modules can be delivered in different application types (see separate leaflet).

The transducers in plastic cases contain only one transducer and are mounted directly on profiled bar 35 EN 50022. Connection to self-opening clamps for max 6 mm² wires.

Order facts:

Enclosed for mounting on	19" rack modul (wide 8 TE)	
profiled bar 35 EN 50022	Single	Double
Туре	Туре	Туре
I 480L-15x	I 480R-15x	I 480R-25xx
U 480L-15x	U 480R-15x	U 480R-25xx
U 484L-15x	U 484R-15x	U 484R-25xx
Replace x(x) with last digit(s) for output according to table below		
	External	
Output	resistans load	Last digit x(x)
0 - 5 mA	0-3000 Ω	1
0 -10 mA	0-1500 Ω	2
0 -20 mA	0- 750 Ω	3
4 -20 mA	0- 750 Ω	4
0 -10 V	> 700 Ω	5

Order form:

Measuring transducer for alternating current

I 480L-154 Type Input 0 - 5 A, 50 Hz 4 - 20 mA Output Power supply 230 V, 50 Hz

Enclosed for mounting on profiled bar 35 EN 50022

Technical data

Input I 480

Measuring range any value between 0,3 and 10 A

Standard ranges 0-1/2/5/6 A 15...<u>45 - 65</u>...300 Hz < 0,05 VA Frequency range

Consumption (burden) Overload capacity

 $2 \times I_{in}$ continuously $10 \times I_{in}$ during 15 s $40 \times I_{in}$ during 0,5 s

Input U 480 (U 484)

Measuring range any value between 10 and 500 V

(Rack version max 300 V)

0-110/120/132/137,5/250/500 V Standard ranges

Frequency 15...<u>45 - 65</u>...300 Hz Consumption (burden)

<U_{in} × 1 mA 1.5 × U_{in} continuously 2 × U_{in} during 10 s Overload capacity

Output

Output signal (span) min 0-1 mA

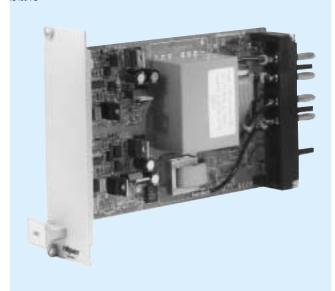
max 0-20 mA

0...5/10/20 mA, 4-20 mA Standard ranges

Load max. 15 V **Current limitation** < 30 mA 0-10 V Voltage Burden > 700 Ω Ripple < 1% p.p.



IU480-FB



General data

Accuracy class 0,5 according to IEC 688

0,2 on request Linearity error < 0.1% Response time 0-90% < 80 ms Temperature influence < 0,1%/10°C -25...+60°C operation Temperature range -40...+70°C storage

5,6 kV, 50 Hz, 1 min (Rack version 3,7 kV) 24, 110, 230 VAC ± 15%, 47-70 Hz, ca 2 VA 24-130 VDC ± 20%, ca 2,5 W Test voltage Power supply

Weight 0,4 kg

Options on request

Standards

General standards for measuring transducers EN 60688, IEC 688

emission EN 50081-2 **EMC**

immunity EN 50082-2 * Safety EN 61010-1, IEC 1010-1 Inputs overvoltage cat. III Outputs overvoltage cat. II

Pollution degree

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

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