MEASURE TRANSMITTERS

AC / DC current or voltage

Series TM



♦ This range is declined into 2 versions

TMA AC current or voltage input

TMP DC current or voltage input

which will accept a non-standard signal and convert it into a 0/10V voltage or 0-4/20mA current (active or passive) standardized insulated output signal.

For processing or transmission of signals ...

♦ ***Options*** *: (specify on order)*

-Inverted or shifted scales.

-Bidirectionnal inputs.

-5Adc input (TMP)

-Bidirectionnal voltage output ±10V. Lr>1kΩ

-Bidirectionnal current output ±20mA. Lr<320Ω

-Passive current output 0-4/20mA U:30V max.

-Standard response time : 250ms
Option shorter response time : from 10ms to 250ms
Option longer response time : from 250ms to 30s
(specify on order)

-Version HI : High insulation 4kV

♦ ***Accessibilities :***

Plug-off connectors for screwed connections.

Internal selection of the input and output calibers by jumpers, accessible behind the front face.

5Aac Current input, safened by a screwed connector.

Transfer

♦ Accuracy rating	: ≤ 0.3 (ac) and ≤ 0.2 (dc)
♦ Ripple	: ≤ 0.5%
♦ Galvanic partition	: 2kV eff. 50Hz 1min. (input / output / power supply) TMP-Hi (4kv eff. - 50 Hz - 1 min.)
♦ Response time	: ≤ 250ms [Tr] (in standard)
♦ Pass-band	: 1.5Hz (-3 decibels) [PB:0.35/Tr]
♦ T° coefficient	: ≤ 0.015%/°C

Environment

♦ Operating temperature : -10°C to +60°C.

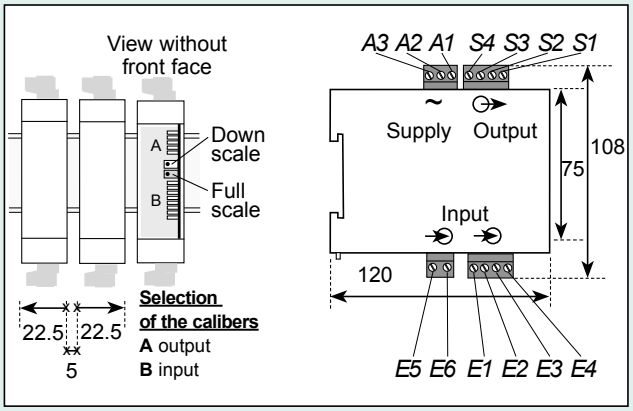
♦ Storage temperature : -30°C to +80°C.

♦ Disturbance immunity according to the standard IEC 61000-6-2 (IEC 61000-4-3 : level 3, IEC 61000-4-4 : level 4, IEC 61000-6-6 : level 3)

♦ CE marking.

Description

♦ **Housing** : (H x L x D) 75 x 22.5 x 120 mm (H=108, with terminals)



♦ **Protection** : Housing / terminals : IP 20

♦ **Housing** : Self-extinguishing case of black UL 94VO ABS for latching on symmetrical DIN rail (mount the instruments vertically and provide a 5mm space between each). Plug-off terminals for screwed connectings (2.5mm, flexible or rigid).

♦ **Weight** : 130g (with packaging).

Features

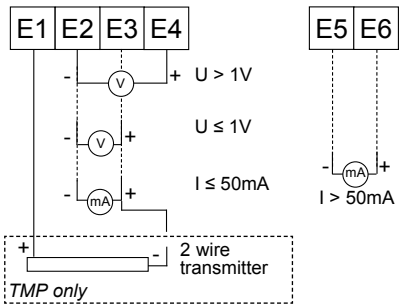
Names of the transmitters	Ranges	Max. sensitiveness	Min. sensitiveness	Impedance	Permanent overload	Features
AC current and voltage **TMA** 	100 mVac	0/10 mV	0/100 mV	100 kΩ	25 V	Internal selection of the range by removable jumpers, and fine settings by multi-turn potentiometers. Voltage : 10mV / 100mV / 1V / 10V / 100V / 650V ac Current : 5mA / 5A ac Possibility to perform shifted scales.
	1 Vac	0/0.1 V	0/1 V	100 kΩ	75 V	
	10 Vac	0/1 V	0/10 V	1 MΩ	750 V	
	100 Vac	0/10 V	0/100 V	1 MΩ	750 V	
	650 Vac	0/100 V	0/650 V	1 MΩ	750 V	
	50 mAac	0/5 mA	0/50 mA	20 Ω	100 mA	
	5Aac	0/500 mA	0/5 A	0.02Ω	7.5 A	
DC current and voltage **TMP** 	±100 mVdc	0/10 mV	0/100 mV	100 kΩ	25 V	Internal selection of the range by removable jumpers, and fine settings by multi-turn potentiometers. Voltage : ±10mV / ±100mV / ±1V / ±10V / ±100V / ±500V dc Current : ±5mA / ±50mA dc Possibility to perform shifted scales. Integrated supply for 2-wire sensors 22V ±20% (Imax:25mA). Bidirectionnal inputs.
	±1 Vdc	0/0.1 V	0/1 V	100 kΩ	75 V	
	±10 Vdc	0/1 V	0/10 V	1 MΩ	750 V	
	±100 Vdc	0/10 V	0/100 V	1 MΩ	750 V	
	±500 Vdc	0/75 V	0/750 V	1 MΩ	750 V	
	±5 mAdc	0/0.5 mA	0/5 mA	20 Ω	100 mA	
	±50 mAdc	0/5 mA	0/50 mA	20 Ω	100 mA	

Name	Description
Current outputs mA	0/20 mA 4/20 mA Load resistance : < 750Ω ±20mA Load resistance : < 320Ω
Voltage outputs V	0 / 10 V ±10V Load resistance : > 1kΩ
Power supply	20 to 270 Vac and 20 to 300 Vdc (50/60/400Hz in AC)
Power draw	On load : < 4,5VA (2,5W) Empty : < 2,5VA (1W)

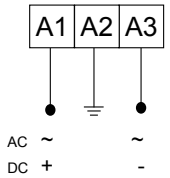
Coding	
AC current / voltage input	TMA
DC current / voltage input	TMP

Wiring

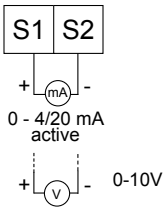
Input



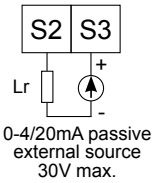
Power supply



Active current and voltage output



Passive current output



This instrument is dedicated to industrial applications. It has to be installed in an electrical switchbox, or equivalent.

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