

CONCENTRATOR OF MEASURES FOR TPIs 's

TPIs M

Functions

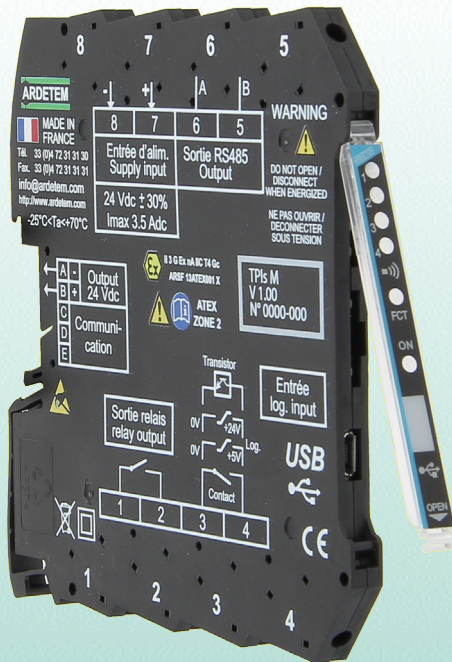
- ▶ Management of the inputs and outputs of a network of 50 TPIs's max.
- ▶ Concentration and supervision of the measures via an isolated digital output RS485 in protocole MODBUS / JBUS (mode slave in standard).
- ▶ Distribution of the 24V $\pm 30\%$ power supply to the TPIs's.
- ▶ 1 isolated logic input (option TOR).
- ▶ 1 relay output (NO contact 6A/250Vac on resistive load).
- ▶ ATEX installation, in area 2.

Applications

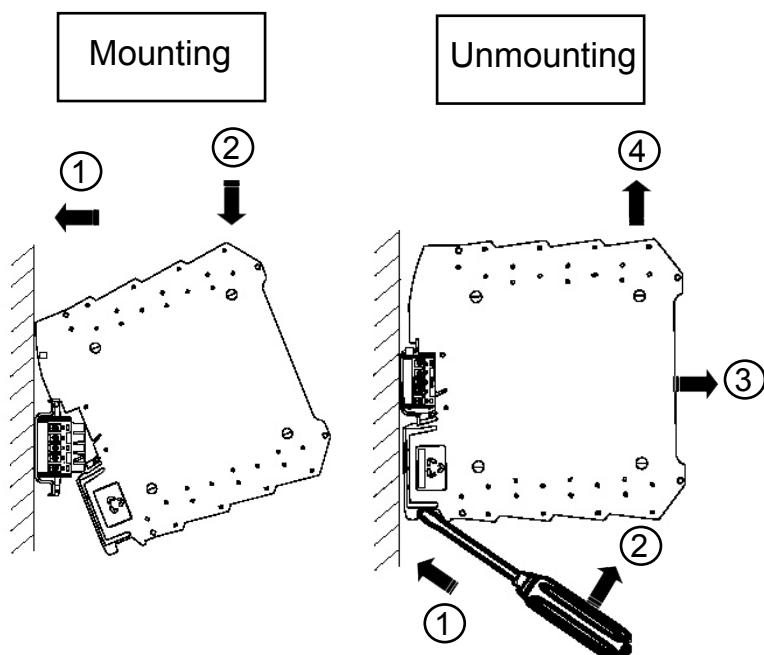
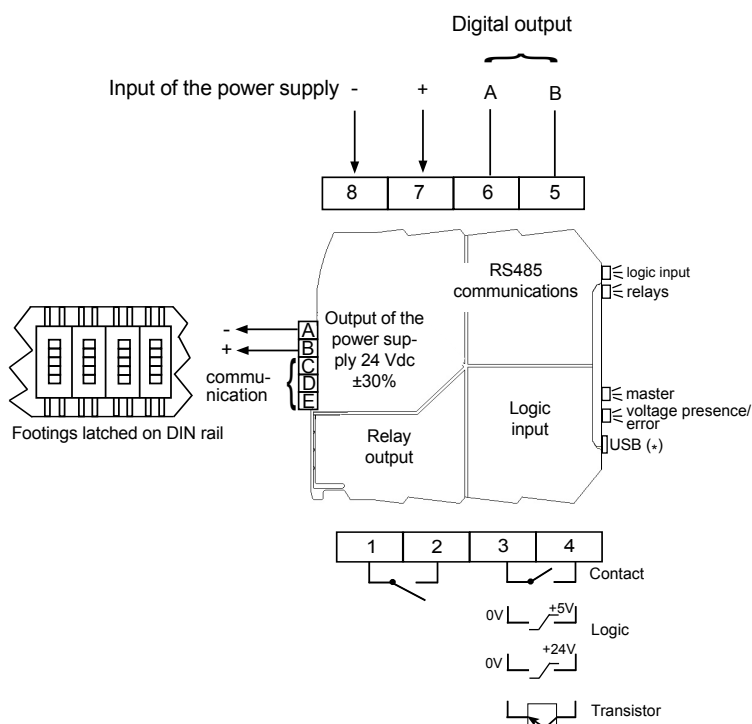
- Digital output in mode "slave"
- ▶ Supervision of the measures of TPIs's (100 measures max).
- ▶ Control of the relays TPIs 4R's (option Y) (50 relays max).
- Digital output in mode "Master"
- ▶ Sending of the measures of 50 TPIs's on panel indicators (via the RS485 Modbus).
- ▶ Integration of external measures into the network of TPIs's.

Configuration

The programming is performed via the μ USB connector located on the front face, which must be connected to a PC equipped with the software SlimSet.



Connectings



Electrical features at 23°C

Supply voltage	16.8 to 31.2 Vdc
Max. internal power draw and dissipation	0.6W
Max. supply current of the Bus	3.5 Adc
Dielectric withstanding	2.5 KV - 50Hz - 1 min.
Operating temperature	-25°C to +70°C
Storage temperature	-40°C to +85°C
Installation	pollution degree 2 / voltage surge II
Relay output	1 potential free NO contact of 6A/250Vac or 24Vdc on resistive load
Isolated logic input (option TOR)	Potential free contact or transistor in standard or 24V $\pm 30\%$ or 5V TTL

Compliance with standards

Directive EMC 2014/30/UE	standard: EN 61326-1
Directive Low Voltage 2014/35/UE	standard: EN61010-1
Directive ATEX 2014/34/UE	standard: EN60079-0, EN60079-15
	marking: CE Ex II3G Ex nA IIC T4 Gc

Mechanical features

Dimensions HxLxD	114 x 7.2 x 114 mm
Mounting	on symmetrical DIN rail
Housing	Self-extinguishing case of PBT
Protection	Housing/terminals: IP20
Terminals	Screwed connections for flexible or rigid wires of 2.5 mm ²
Weight	90 gr

Instructions for the installation

A circuit breaker or an external fuse adapted to the drawn current is recommended.

Installation in ATEX area 2:

The product must be installed by qualified staff, competent on the directives and the regulations applicable to the ATEX area. It must be installed inside a protective envelope ensuring a protection at least of the type IP54 as defined in the standard EN60529. The operator must ensure an external protection in order to prevent any transient disturbances on the supply of the modules greater than 40% of the nominal voltage. The TPIs must be disconnected from its DIN rail footing only if the power supply of the rail has been switched off or if the area is safe.

Option	Reference of the TPIs
MODBUS (in slave mode)	TPIs M
MODBUS writing (in slave mode)	TPIs M Y
Master	TPIs M M
Calculations (C)	TPIs M C
Logic input (TOR): 24V $\pm 30\%$	TPIs M T24
Logic input (TOR): 5V TTL	TPIs M T5

This appliance is designed for industrial applications. It has to be installed in an electrical cabinet, or equivalent.



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