LOOP ISOLATOR

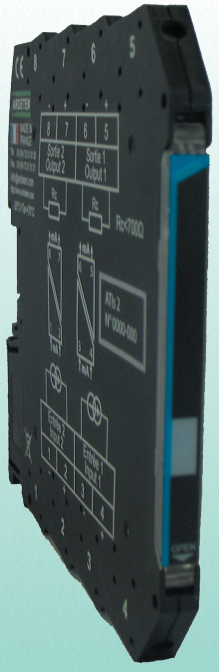
self-powered

ATIs 1 ATIs 2

Type

- The ATIs solves common point problems that may occur on measure loops, and also helps to prevent rejections of inducted disturbances on the cables.
- The ATIs isolates sensors or transmitters from process receivers (PLCs, data takers, etc.)

Installation in ATEX / IECEx area 2
Installation in division 2 cFMus



Functions

- 1 or 2 isolated meas. channels
- Isolation input / output
- Transfer ratio 1 / 1
- High transmission accuracy
- High load impedance
- Self supplied by the input signal
- Reduced dimensions

Marking:

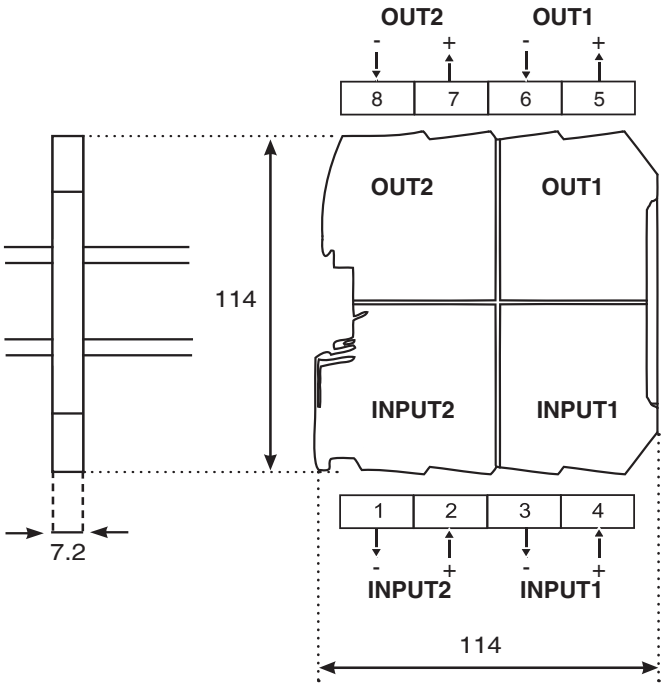
CE

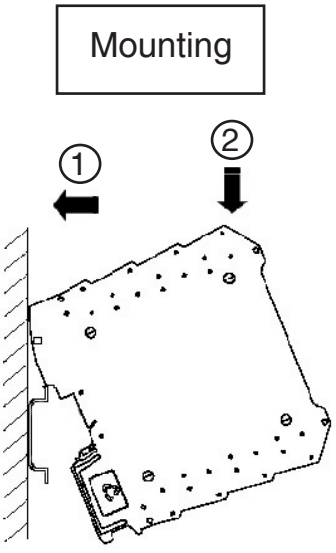
Ex II 3 G Ex nA IIC T4 Gc
Class I, Div.2, Groups A, B, C, D T4

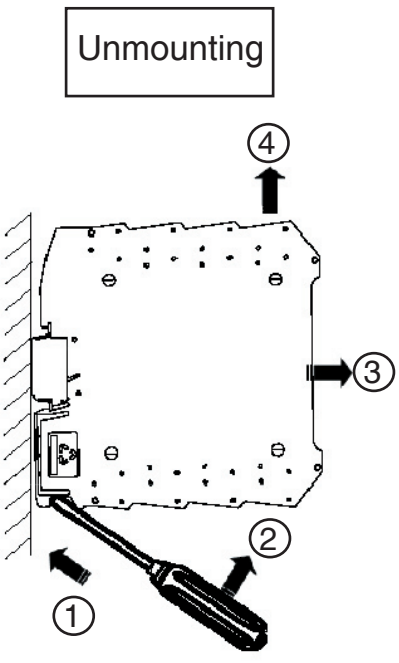
ATIs

Dimensions, wiring

ATIs: dimensions: 7.2 x 114 x 114 mm







Technical features at 23°C

		ATIs 1	ATIs 2
INPUT	**Number of channels**	**1 channel**	**2 channels**
	Current	0..4..20..50 mA	0..4..20..50 mA
	Internal voltage drop at 20mA	≤ 1.5 V	≤ 1.5 V
	Load loss	I x Lr + 1.5 V	I x Lr + 1.5 V
	Max. voltage drop (output loop open)	Ue = 18.5 VDC	Ue = 18.5 VDC
	Impedance in Ω at 20 mA	Lr+ 75 Ω	Lr + 75 Ω
OUTPUT	**Number of channels**	**1 channel**	**2 channels**
	Current	0..4..20..50 mA	0..4..20..50 mA
	Max load (Lr in Ω) admissible at 20 mA	700 Ω	700 Ω
SUPP.	**Power supply**	**Self-powered** by the input loop	**Self-powered** by the input loop
GENERALS	**Nominal response time (0 to 90%)**	<1 ms	<1 ms
	Accuracy at nominal conditions at 20mA Grade Temperature influence Lr: load resistance influence	 0.1 % at Lr=0 Ω ±0.01 % / °C for Lr ≤ 700Ω ±0.05% / 100Ω for Lr ≤ 700Ω	 0.1 % at Lr=0 Ω ±0.01 % / °C for Lr ≤ 700Ω ±0.05% / 100Ω for Lr ≤ 700Ω
	Temperatures Operating temperature Storage temperature	 -25 to +70°C -40 to +85 °C	 -25 to +70°C -40 to +85 °C
	Others Convertion ratio Isolation Input/output and bet. channels Condense free dampness	 1 / 1 2.5 Kv 50Hz 1mn 85 %	 1 / 1 2.5 Kv 50Hz 1mn 85 %
	Compliance with standards	EMC 2014/30/UE IEC 61000-6-4 rejection IEC 61000-6-2 immunity (<2% of the measure range)	EMC 2014/30/UE IEC 61000-6-4 rejection IEC 61000-6-2 immunity (<2% of the measure range)
	Electrical safety	EN 61010-1 UL 508 17th ed.	EN 61010-1 UL 508 17th ed.
	ATEX 2014/34/UE area 2 IECEx area 2 Hazardous locations	EN 60079-0, EN 60079-15 IEC 60079-0, IEC 60079-15 ANSI/ISA 12.12.01	EN 60079-0, EN 60079-15 IEC 60079-0, IEC 60079-15 ANSI/ISA 12.12.01
MECHANICAL	**Dimensions H x L x D**	114 x 7.2 x 114 mm	114 x 7.2 x 114 mm
	Tightening	Symmetrical DIN rail	Symmetrical DIN rail
	Housing	self-extinguishing case of PBT	self-extinguishing case of PBT
	Tightness	Housing / terminals IP 20	Housing / terminals IP 20
	Terminals	Screwed connections for flexible or rigid 2.5 mm² wires	Screwed connections for flexible or rigid 2.5 mm² wires
	Weight	63 g	78 g

ARDETEM - CA CO/120 D -10/2026 - Any data in this documentation may be modified without prior notice.

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

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