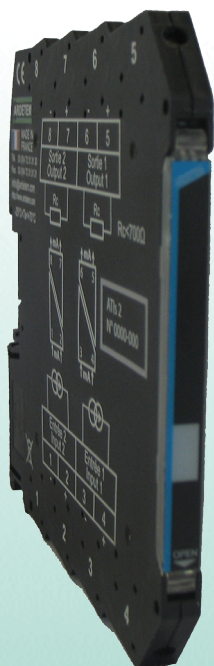


ATIs1/2-ELITs1/2

ARDETEM

SFERE



Type

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



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

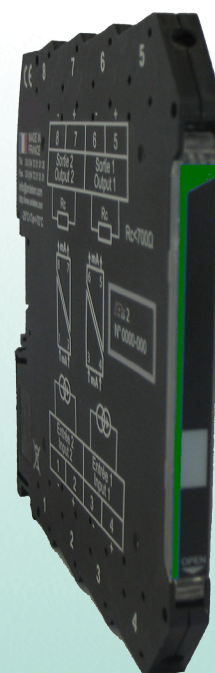
Functions

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

Marking:

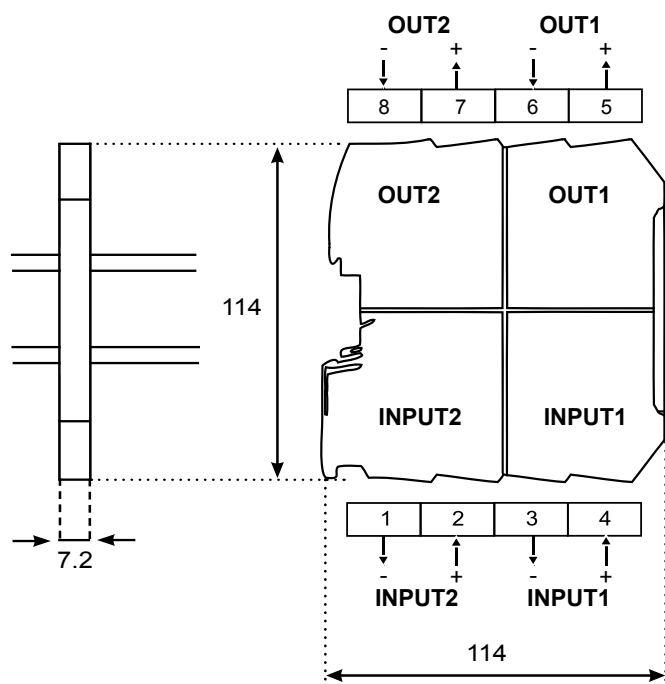


II 3 G Ex nA IIC T4 Gc
Class I, Div.2, Groups A, B, C, D T4

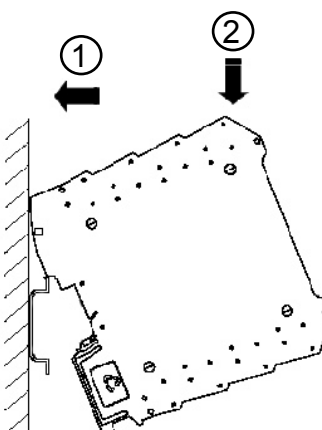


Dimensions, wiring

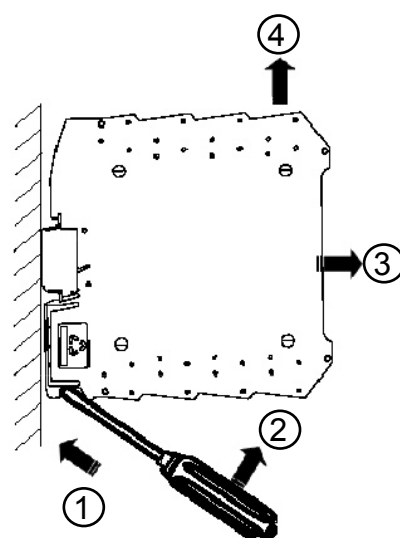
Dimensions: 7,2 x 114 x 114 mm



Mounting



Unmounting



Coding

1 channel loop isolator
ARDETEM reference: ATIs1
SFERE reference: ELITs1

2 channel loop isolator
ARDETEM reference: ATIs2
SFERE reference: ELITs2

Technical features at 23°C

		ATIs/ELITs 1	ATIs/ELITs 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	$\leq 1.5 \text{ V}$	$\leq 1.5 \text{ V}$
	Load loss	$I \times L_r + 1.5 \text{ V}$	$I \times L_r + 1.5 \text{ V}$
	Max. voltage drop (output loop open)	$U_e = 18.5 \text{ VDC}$	$U_e = 18.5 \text{ VDC}$
OUTPUT	Impedance in Ω at 20 mA	$L_r + 75 \Omega$	$L_r + 75 \Omega$
	Number of channels	1 channel	2 channels
	Current	0..4..20..50 mA	0..4..20..50 mA
SUPP	Max load (L_r in Ω) admissible at 20 mA	700 Ω	700 Ω
	Power supply	Self-powered by the input loop	Self-powered by the input loop
GENERAL DATA	Nominal response time (0 to 90%)	< 1 ms	< 1 ms
	Accuracy at nominal conditions at 20mA		
	Grade	0.1 % at $L_r = 0 \Omega$	0.1 % at $L_r = 0 \Omega$
	Temperature influence	$\pm 0.01 \text{ \% / } ^\circ\text{C}$ for $L_r \leq 700 \Omega$	$\pm 0.01 \text{ \% / } ^\circ\text{C}$ for $L_r \leq 700 \Omega$
	L_r : load resistance influence	$\pm 0.05 \text{ \% / } 100 \Omega$ for $L_r \leq 700 \Omega$	$\pm 0.05 \text{ \% / } 100 \Omega$ for $L_r \leq 700 \Omega$
	Temperatures		
	Operating temperature	-25 to +70°C	-25 to +70°C
	Storage temperature	-40 to +85 °C	-40 to +85 °C
	Others		
	Conversion ratio	1 / 1	1 / 1
	Insulation Input/output and bet. channels	2.5 Kv 50Hz 1mn	2.5 Kv 50Hz 1mn
	Condense free dampness	85 %	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 CSA C22.2 14-13 UL 508 17th ed.	EN 61010-1 CSA C22.2 14-13 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 CSA C22.2 213 ANSI/ISA 12.12.01	EN 60079-0, EN 60079-15 IEC 60079-0, IEC 60079-15 CSA C22.2 213 ANSI/ISA 12.12.01
	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
MECHANICAL	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 mm ² wires	Screwed connections for flexible or rigid 2.5 mm ² wires
	Weight	63 g	78 g

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



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