

SELF-POWERED LOOP ISOLATOR ATIS/ATI2S-H ELIT93/940-H

ARDETEM



SFERE



Advantages

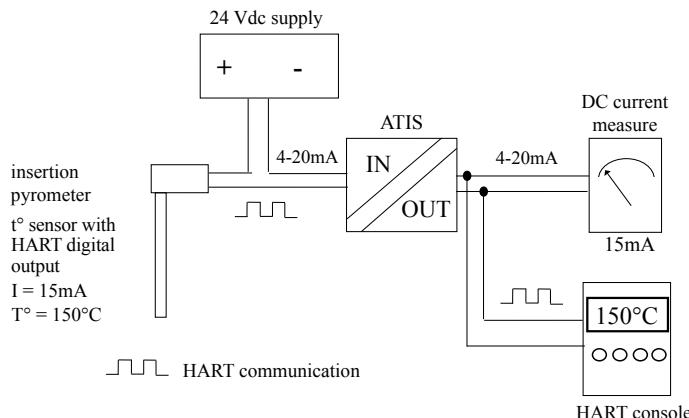
- The ATIS/ELIT solves common point problems which may occur on the measure loops and also reduces the rejection of the disturbances induced on the cables.
- The ATIS/ELIT isolates the sensors or transmitters from the process receivers PLC's, recorders, etc.)
- The transparency to the HART protocole allows the user to communicate with the digital protocole HART via the ATIS/ELIT.

- HART PROTOCOLE TRANSPARENCY
- 1 or 2 isolated measure channels
- Isolation between input / output
- Transfer ratio 1 / 1
- High transmission accuracy
- High load impedance
- Powered by the input signal
- Reduced dimensions

Applications

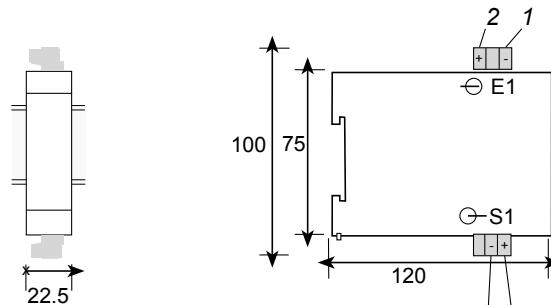
- Insulation of current loops.
- Insulation of measure transmitters from the PLC boards.
- Insulation of 4-20mA signals from thermocouples which may start to have insulation problems when the temperature increases.

Application example with a temperature sensor with hart digital output:

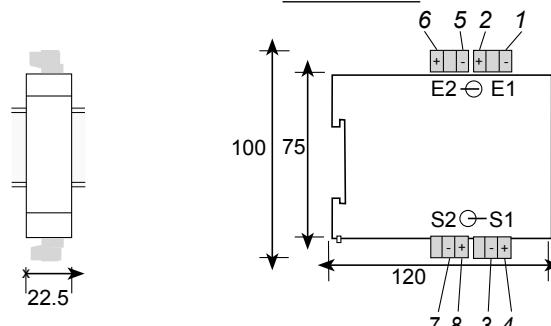


Dimensions

ATIS-H/ELIT93-H: dimensions: 75 x 22.5 x 120 mm



ATI2S-H/ELIT940-H: dimensions: 75 x 22.5 x 120 mm



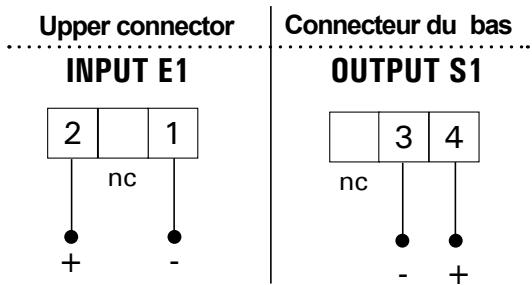
The ATIS/ELIT transmits the measure information in the form of a DC current, + the HART digital pattern with a galvanic partition of 2kV.

Technical features at 23 °C

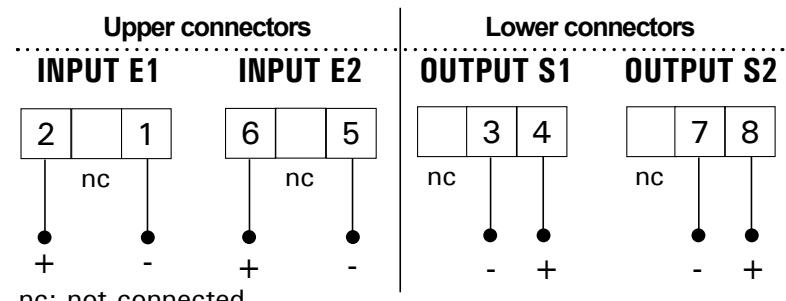
	ATIS-H/ELIT93-H	ATI2S-H/ELIT940-H
INPUT	Number of channels Current Internal voltage drop at 20mA Load loss Max. voltage drop (output loop open) Impedance, in Ω at 20 mA	1 channel 0..4..20..50 mA $\leq 1.8 \text{ V}$ $I \times L_r + 1.8 \text{ V}$ $U_e = 16 \text{ VDC}$ $L_r + 90 \Omega$
	Number of channels Current Max. load (L_r in Ω) admissible at 20 mA	1 channel 0..4..20..50 mA 700Ω
	Power supply	Self-powered by the input loop
	Nominal response time (0 to 90%) For a load $L_r = 20 \Omega$ $L_r = 100 \Omega$ L_r influence $100 \leq L_r \leq 700 \Omega$	0.3 ms 1 ms 0.7 ms / 100Ω
	Accuracy at the nominal conditions Class Temperature influence Influence of the load resistance L_r	0.15 % at $L_r = 100 \Omega$ $\pm 0.001 \% / ^\circ\text{C}$ $\pm 0.05 \% / 100\Omega$ for $L_r \leq 500\Omega$ $\pm 0.1 \% / 50\Omega$ if $\geq 500\Omega$
GENERALS	Temperatures Operating Storage	0 to 55°C -20 to +70 °C
	Others Transforming ratio Insulation input / out. and between chan Condense free dampness Standards	1 / 1 2 Kv 50Hz 1mn 85 % CE acc. EN50081-2 & EN50082-2
	Dimensions H x L x D	75 x 22.5 x 120 mm
	Tightening	mounting on symmetrical horizontal DIN rail
	Sealing	Housing / terminals IP 20
MECHANICAL	Terminals	Screw-in connectors for flexible or rigid 2.5 mm^2 wires
	Weight	100 g
MECHANICAL		75 x 22.5 x 120 mm
		mounting on symmetrical horizontal DIN rail
GENERALS		Housing / terminals IP 20
		Screw-in connectors for flexible or rigid 2.5 mm^2 wires
GENERALS		140 g

Connectings

ATIS-H/ELIT93-H



ATI2S-H/ELIT940-H



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



e-mail : info@ardetem.com
http://www.ardetem.com

Route de Brindas
Parc d'activité d'Arbora N°2
69510 SOUCIEU EN JARREST
FRANCE

Tél. : 33 (0)4 72 31 31 30
Fax. : 33 (0)4 72 31 31 31

your representative