

# INT-AI16-F

16 channels - Analog Input 4-20mA for 2,3, or 4-wires transmitter with fuse protection

### Description :

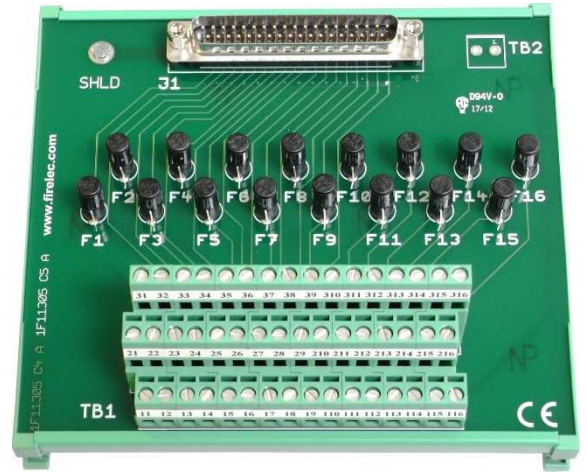
The INT-AI16-F allows to connect either 2, 3 or 4-wire 4-20mA transmitters to a Distributed Control System (DCS), or a Programmable Logic Controller (PLC).

It is possible to connect up to 16 transmitters (channel 1 to channel 16) using the 3 terminals (screw or cage clamp terminals labelled : TPS, mA and common).

Each channel is protected by a replaceable fuse.

- The terminals of the lower row are tied together and must be connected to the field power supply common (-) 24Vdc.
- The terminals of the middle row are dedicated to the transmitters power supply.
- The terminals of the upper row are dedicated to the mA input.
- The terminal TB2 allows to connect the interface unit to the common of the transmitter P.S.

The connection to the Analog Input card is done using a shielded cable, with a SUBD37F connector at one end, and labeled flying wires or a suitable connector matching with the system Analog Input card used at the other end.



### Product options :

- Option **ST** : INT-AI16-F-ST, Screw terminals for the process signals connection
- Option **ST2.5** : INT-AI16-F-ST2.5, Screw terminals with a capacity of 24 to 14AWG (0.22 to 2.5mm<sup>2</sup>) for the process signals connection
- Option **CCT** : INT-AI16-F-CCT, Cage clamp terminals for the process signals connection
- Option **VSH** : Conformal coating (Tropicalization)

### Technical specifications :

Dimensions :	Conductor cross section :
Length : 142 mm	<b>TB1 : Inputs</b>
Width : 128 mm	ST : 26 to 14 AWG (0,14 to 1,5mm <sup>2</sup> )
Height : 65 mm	ST2.5 : 24 to 12 AWG (0,2 to 2,5mm <sup>2</sup> )
<b>Weight :</b>	CCT : 24 to 14 AWG (0,2 to 1,5mm <sup>2</sup> )
200 g	<b>TB2 : PSU (-) return</b>
<b>Temperature range :</b>	ST : 26 to 14 AWG (0,14 to 1,5mm <sup>2</sup> )
Operating : -10°C to 60°C	<b>Insulation voltage :</b>
Storage : -20°C to 60°C	250 Vac between non connected
<b>Humidity :</b>	signal
Up to 90% (no condensation)	<b>Max current :</b>
<b>Mounting :</b>	100mA per channel
Asymmetric or symmetric DIN rail	<b>Protection :</b>
<b>Shield connection :</b>	Each channel is protected by a
1 x M3 screw	100mA quick action fuse
<b>Connection to the DCS or to the PLC :</b>	
1 x Sub-D 37 pin male connector with UNC 4-40 female lock.	
1 x screw terminal (TB2) allows an optional connection to the 24vdc power supply return (-) of the DCS or PLC.	

