Bulletin Rev: 2022_01

TP-FM02-02

CHARM™ I/O Baseplate to D-SUB 37 pin Male adapter

<u>Description :</u>

The **TP-FM02-02** adapter panel is used to connect a FIRELEC interface unit to the Emerson CHARM™ I/O baseplate (DeltaV™ S-series) using a D-SUB 37 pin male connector.

The **TP-FM02-02** is screwed directly on the terminal blocks of the CHARM™ I/O baseplate.

The connection to the FIRELEC interface is done using a shielded cable, with a D-SUB 37 pin female connector at one end and labeled flying wires or a suitable connector matching with the FIRELEC interface unit at the other end.

Product options:

Option -1: TP-FM02-02-1, Standard version Option **VSH**: Conformal coating (Tropicalization)

Tachnical Specifications:

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<u>Dimensions</u> :							
Length: 187 mm	W						
Width: 43 mm (54 mm with ID label)	▼						
Height: 40 mm	L ♦ H						
Weight:	Humidity:						
145 g (165 g with the labelling plate LB-11696-1)	Up to 90% (no condensation)						
Temperature range :	Shield connection :						
Operating : -10°C to 70°C	By two M3 screws						
Storage : -10°C to 70°C							
Mounting on the CHARM I/O baseplate :							
Secured by the 36 screws of the CHARM™ I/O Baseplate							
(Screw 1, 2 and 4 for each of the 12 channels)							
Connection with the FIRELEC interface units :							
D-Sub 37 pin male connector with UNC 4-40 female lock							

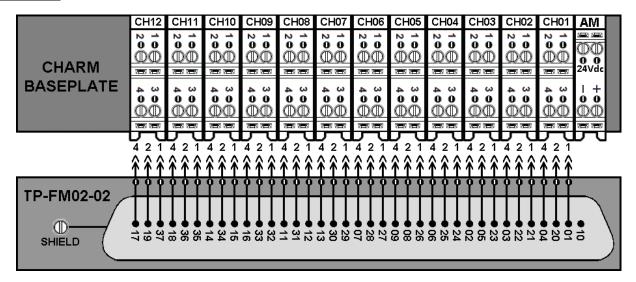




TP-FM02-02-1

TP-FM02-02-1 + LB-11696-1

Pin Assignment:



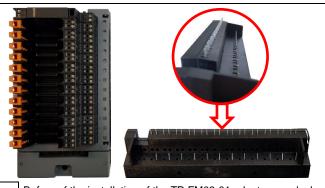
_	CH12	CH11	CH10	CH09	CH08	CH07	CH06	CH05	CH04	CH03	CH02	CH01	AM
CHARM™	4 3 2 1	4 3 2 1	4 3 2 1	4 3 2 1	4 3 2 1	4 3 2 1	4 3 2 1	4 3 2 1	4 3 2 1	4 3 2 1	4 3 2 1	4 3 2 1	- +
SUB-D	17 NC 19 37	18 NC 36 35	14 NC 34 15	16 NC 33 32	11 NC 31 12	13 NC 30 29	07 NC 28 27	09 NC 08 26	06 NC 25 24	02 NC 05 23	03 NC 22 21	04 NC 20 01	NCNC



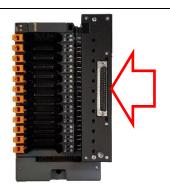




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Before of the installation of the TP-FM02-01 adapter panel, check 1 the pin alignment of each row to avoid any locking of insertion

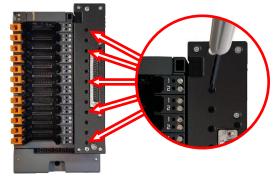


Insert the TP-FM02-02 in the CHARM I/O baseplate by placing the pins in the terminal blocks

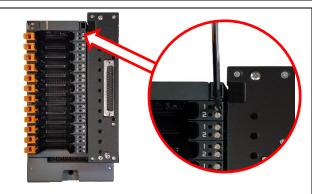
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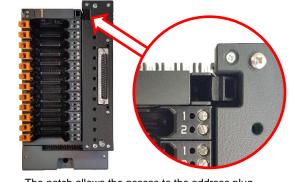
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By keeping the two elements in place, screw the twelve screws of the bottom row through the TP-FM02-02 with a flat-bladed screwdriver to secure the baseplate and the TP-FM02-02.



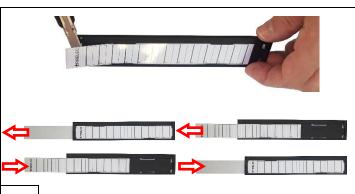
Screw the 24 screws of the top row (1 & 2 of each channels) with a flat-bladed screwdriver



The notch allows the access to the address plug

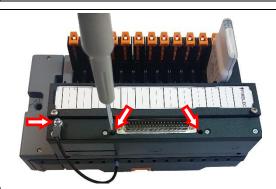


Install the labelling plate using the two Pozidriv M3 screws



Remove the protective screen and the label by the top of the labelling plate.

Reinstall the label before the protective screen by the same way



Connect a wire from the Pozidriv M3 SHD screw of the TP-FM02-02 to the shield bar of the CHARM I/O baseplate. The two holes located from either side of the D-Sub connector are used to make the shield connection using a flat-bladed screwdriver.



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Compatibility:

CODE	Signal	Signal description	CHARM TB	CHARM module	TP-FM02	Interfacing cable	FIRELEC FTA Reference
CM- AI02	AI	4-20mA (2W)	SE4501	SE4303T01	TP-FM02-02-1	CBL-1589 Option (-1)	INT-Al12
CM- AI04	AI	4-20mA (3W with external power supply)	SE4501	SE4303T01	TP-FM02-02-1	CBL-1589 Option (-1)	INT-Al12
CM- AI05	AI	4-20mA (4W)	SE4501	SE4303T01	TP-FM02-02-1	CBL-1589 Option (-1)	INT-Al12
CM- RTD01	RTD	(2W/3W)	SE4501	SE4303T03		CBL-1589 Option (-1)	INT-Al12 (or INT-SUBD37M/363)

TP-FM02-02-1





(or INT-SUBD37M/363)