

TP-FM02-05

CHARM™ I/O Baseplate adapter with 2 x DMCV18 connectors

Description :

The **TP-FM02-05** adapter panel is suitable in order to connect up to twelve 2W or 3W signals (all types), to the Emerson **CHARM™** I/O baseplate (DeltaV™ S-series) using two DMCV 18 pin male connectors.

The **TP-FM02-05** is screwed directly on the **CHARM™** I/O baseplate.

The connection of the signals is done using two shielded cables, with a secured DFMC 18 pin female connector (spring-cage connection) at one end, and labeled flying wires or a suitable connector matching to the terminals or FTAs at the other end.

Product options :

Option -1 : *TP-FM02-05-1*, Standard version

Option -VSH : Conformal coating (Tropicalization)

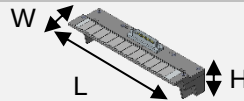
Technical Specifications :

Dimensions :

Length : 187 mm

Width : 43 mm (54 mm with ID label)

Height : 40 mm



Weight :

145 g (165 g with labelling plate LB-11696-1)

Shield connection :

Directly using the dedicated screws of the **CHARM™** I/O Baseplate

Temperature range :

Operating : -10°C to 70°C

Storage : -10°C to 70°C

Max Voltage :

250Vac

Max Current :

5A

Humidity :

Up to 90% (no condensation)

Mounting on the CHARM I/O baseplate :

Secured by 38 screws of the **CHARM™** I/O Baseplate

(Screw 1,2 and 4 for each of the 12 channels and the 2 address module screws)

Connection with the FIRELEC interface :

Two DMCV 18 pin male connectors.

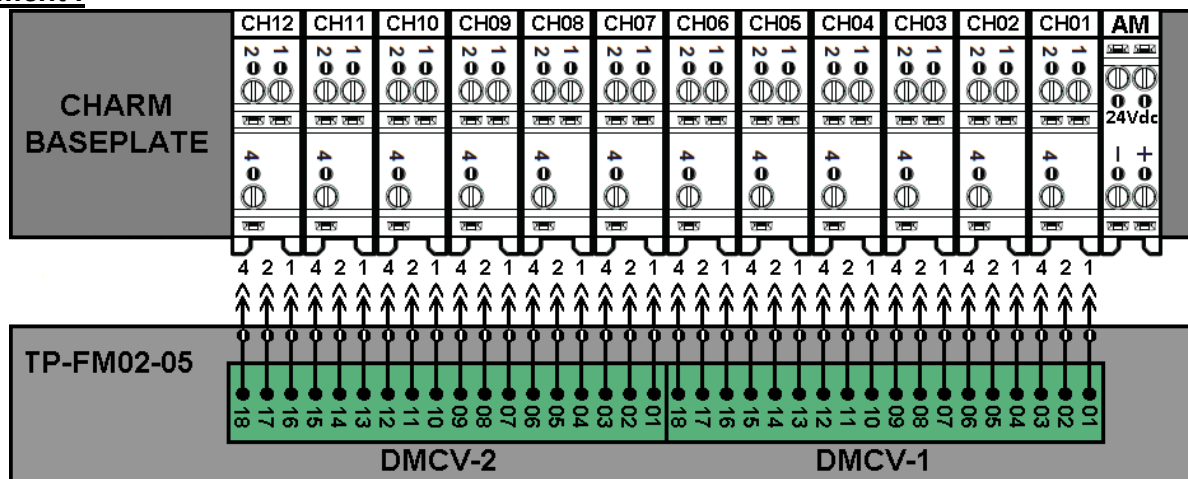


TP-FM02-05-1



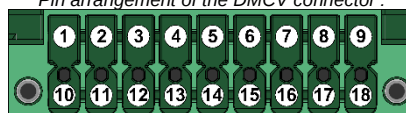
TP-FM02-05-1 + LB-11696-1

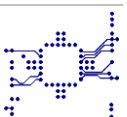
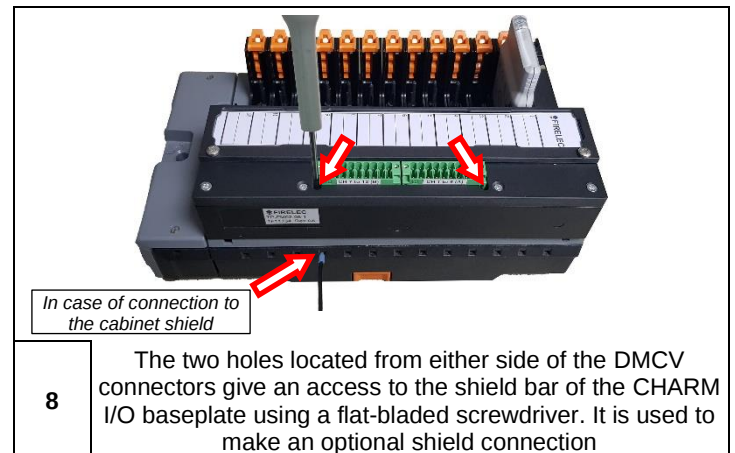
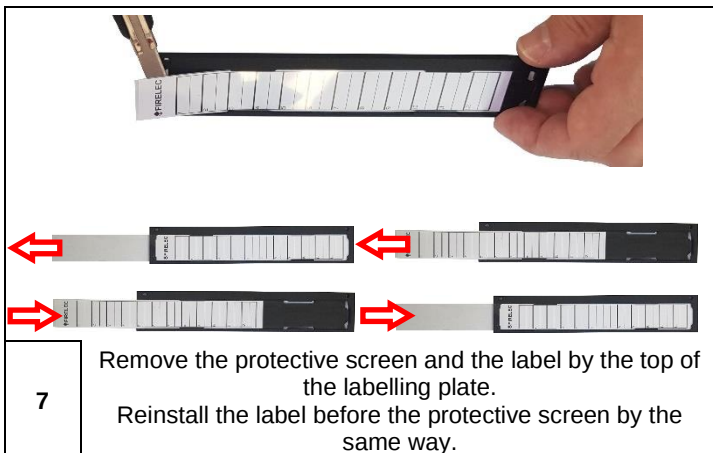
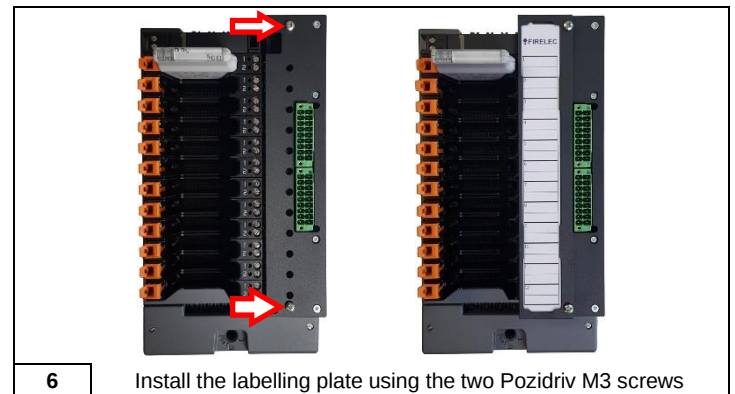
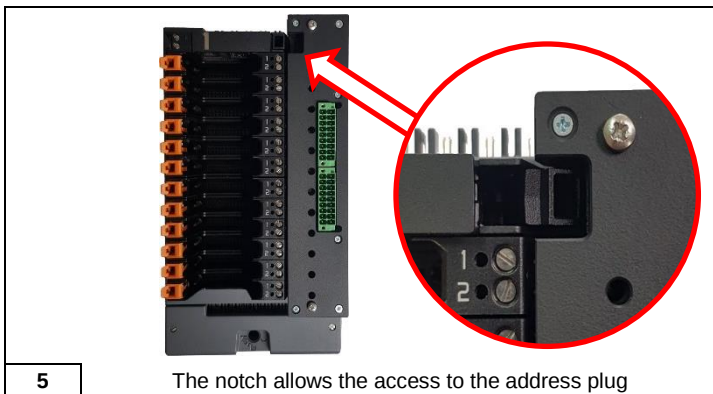
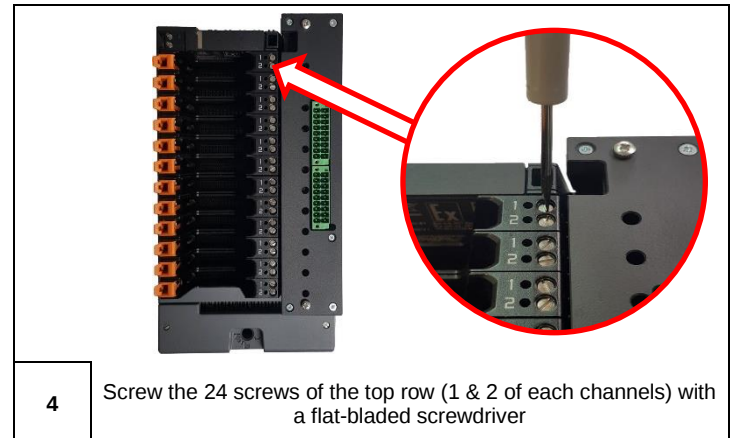
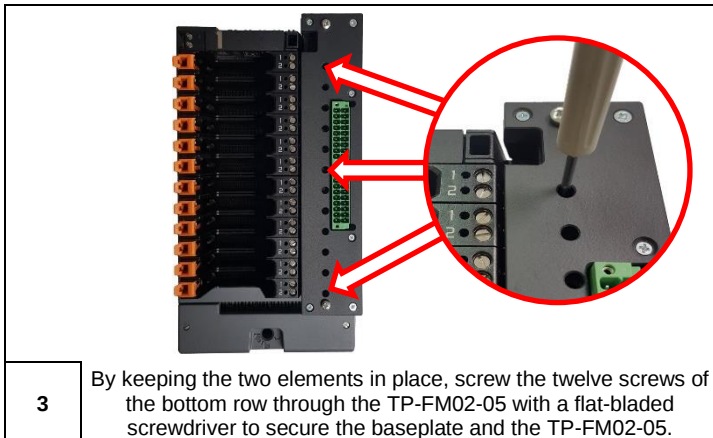
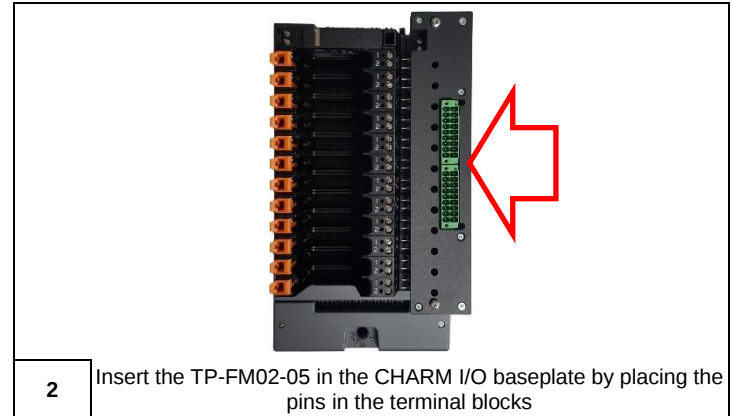
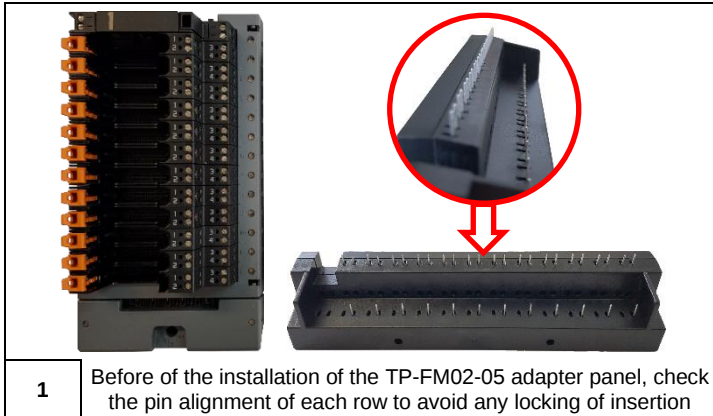
Pin Assignment :



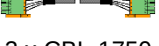
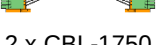
	CH12		CH11		CH10		CH09		CH08		CH07		CH06		CH05		CH04		CH03		CH02		CH01		AM																									
	TB2 (second DMCV18 for channels 07 to 12)												TB1 (first DMCV18 for channels 01 to 06)																																					
CHARM™	4		2	1	4		2	1	4		2	1	4		2	1	4		2	1	4		2	1	4		2	1	-	+																				
DMCV pin	18		17	16	15		14	13	12		11	10	09		08	07	06		05	04	03		02	01	18		17	16	15		14	13	12		11	10	09		08	07	06		05	04	03		02	01	NC	NC

Pin arrangement of the DMCV connector :

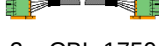




Compatibility :

CODE	Signal	Signal description	CHARM TB	CHARM module	TP-FM02	Interfacing cable	FIRELEC FTA Reference
CM-AI08	AI	0-10Vdc (Isolated)	SE4501	SE4303T04	 TP-FM02-05-1	  2 x CBL-1750 Option (-1)	 INT-2DMCV18/363
CM-AI11	AI	4-20mA (2W)	SE4501	SE4303T01	 TP-FM02-05-1	  2 x CBL-1750 Option (-1)	 INT-2DMCV18/363
CM-AI12	AI	4-20mA (2W/4W)	SE4501	SE4303T01	 TP-FM02-05-1	  2 x CBL-1749 Option (-1)	 INT-2DMCV18/363
CM-RTD05	RTD	RTD (2W /3W)	SE4501	SE4303T03	 TP-FM02-05-1	  2 x CBL-1750 Option (-1)	 INT-2DMCV18/363
CM-AO05	AO	4-20mA	SE4501	SE4304T01	 TP-FM02-05-1	  2 x CBL-1750 Option (-1)	 INT-2DMCV18/363
CM-DI13	DI	Dry contact	SE4501	SE4301T02	 TP-FM02-05-1	  2 x CBL-1750 Option (-1)	 INT-2DMCV18/363
CM-DI14	DI	NAMUR	SE4501	SE4301T01	 TP-FM02-05-1	  2 x CBL-1750 Option (-1)	 INT-2DMCV18/363
CM-DI15	DI	24Vdc Isolated with external PS	SE4501	SE4301T07	 TP-FM02-05-1	  2 x CBL-1750 Option (-1)	 INT-2DMCV18/363



CODE	Signal	Signal description	CHARM TB	CHARM module	TP-FM02	Interfacing cable	FIRELEC FTA Reference
CM-DI19	DI	120Vac Isolated (Low input current - 2mA)	SE4501	SE4301T03	 TP-FM02-05-1	  2 x CBL-1750 Option (-1)	 INT-2DMCV18/363
CM-DI24	DI	120Vac Isolated Plus (High input current - 10mA)	SE4501	SE4301T05	 TP-FM02-05-1	  2 x CBL-1750 Option (-1)	 INT-2DMCV18/363
CM-DI29	DI	230Vac Isolated (Low input current - 1mA)	SE4501	SE4301T04	 TP-FM02-05-1	  2 x CBL-1750 Option (-1)	 INT-2DMCV18/363
CM-DO05	DO	100mA - 24Vdc <u>Current limitation :</u> 107mA (SE4302T04) or 200mA (SE4302T01)	SE4501	SE4302T01 or SE4302T04	 TP-FM02-05-1	  2 x CBL-1750 Option (-1)	 INT-2DMCV18/363
CM-DO06	DO	Electromechanical relay	SE4503	SE4302T01	 TP-FM02-05-1	  2 x CBL-1749 Option (-1)	 INT-2DMCV18/363
CM-DO08	DO	1A - 24Vdc - Isolated	SE4501	SE4302T02	 TP-FM02-05-1	  2 x CBL-1750 Option (-1)	 INT-2DMCV18/363
CM-DO11	DO	500mA - 230Vac (External Power supply)	SE4501	SE4302T03	 TP-FM02-05-1	  2 x CBL-1750 Option (-1)	 INT-2DMCV18/363

