

TB-D5008-INV-004

8-pos Term. Board for Foxboro FBM200 AI/AO cards

This Termination Board (TB) provides direct connection between the I/O Card of the system and D5000 / D6000 Series modules.

The Intrinsically Safe protection and signal isolation between Safe and Hazardous Area are provided by D5000 Series Associated Apparatus. The 24 Vdc Power Supply of the TB is connected to two plug-in terminal blocks, for a redundant power supply.

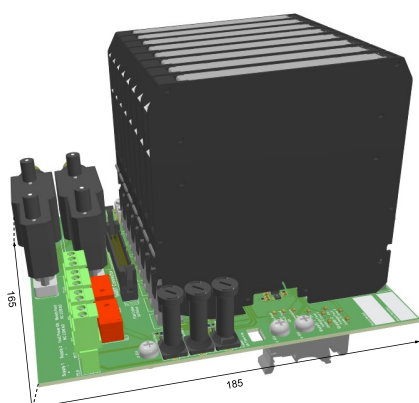
FEATURES

- Foxboro FBM200 AI/AO Cards board interfaces
- Connection to external GMI HART Mux 5700
- 8 positions Termination Board for up to 16 channels
- Lower cables installation and maintenance costs
- Power supplies fault monitoring
- Mounting hardware provided for single DIN Rail or wall

SUPPORTED CARDS & MODULES

SYSTEM	I/O CARD	CARDS / BOARDS	MODULES
Foxboro FBM200	FBM201 FBM214 FBM214b FBM216 FBM216b	2	D5011D, D5014D, D5072D, D6002D, D6004D, D6011D, D6014D, D6072D
Foxboro FBM200	FBM215 FBM218 FBM237	2	D5020D, D6002D, D6020D
Foxboro FBM200	FBM204 FBM205 FBM208b FBM244 FBM245	2	D5011D, D5014D, D5072D, D6002D, D6004D, D6011D, D6014D, D6072D + D5020D, D6020D

TERMINATION BOARD IMAGE



TECHNICAL DATA

General

Number of positions: 8

Maximum number of channels: 16

Supply

24 Vdc nom (20 to 30 Vdc), reverse polarity protected, double terminal blocks for redundant power supply, with OR diodes to mix supply voltages.

Max allowed current consumption: 1 A (as total supply).

Connection: by polarized plug-in disconnect screw terminal blocks to accommodate terminations up to 2.5 mm².

Protection fuse: 2 A time lag.

Fault detection

The on-board diagnostic monitors both power supplies integrity and the module cumulative fault. Any malfunction is reported by deactivating a relay and activating the corresponding LEDs.

Alarm is issued if:

- 1) Power supply 1 or 2 < 18 Vdc or
- 2) Power supply 1 or 2 > 32 Vdc or
- 3) Module cumulative fault ON.

Alarm is removed if:

- 1) 20 Vdc < Power supply 1 and 2 < 30 Vdc and
- 2) No module cumulative fault.

Connection: by polarized plug-in disconnect screw terminal blocks to accommodate terminations up to 2.5 mm².

Ouput rating: 2 A 36 Vac 72 VA, 2 A 48 Vdc 80 W (resistive load).

I/O Card Interface

Connection: 2 x SUBD, 25-poles male connector (require female mating connector).

Cable: system cable Type 1.

HART Mux Interface

Connection: 1 x 34-poles receptacle connector (require female mating connector).

Cable: flat cable CABF032.

Environmental conditions

Operating temperature: temperature limits -40 to +70 °C.

Max altitude: 2000 m a.s.l.

Storage temperature: temperature limits -45 to +80 °C.

Mounting

Hardware included for mounting on single DIN-rail 35 mm or on wall (thread or self tapping screws provided).

Weight: about 200 g, excluding modules and mounting kit.

Location: installation in Safe Area.

Dimensions: Width 165 mm, Depth 185 mm, Height 125 mm.

ORDERING INFORMATION

Ordering codes

TB-D5008-INV-004



Functional Safety Management Certification:

GM International is certified to conform to IEC61508:2010 part 1 clauses 5-6 for safety related systems up to and included SIL3. In addition, GM International products have been granted I.S. certificates from the most credited Notified Bodies in the world.

Data specified in this document are merely descriptive of the products and should be integrated with relevant technical specifications. Our products are in constant development and the information presented herein refers to the time of document issue. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. Terms & Conditions can be found at our website. For more information refer to instruction manual.

FUNCTION DIAGRAM

