

# TB-D5016-INV-003

## 16-pos Term. Board for Foxboro FBM200 DO 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.

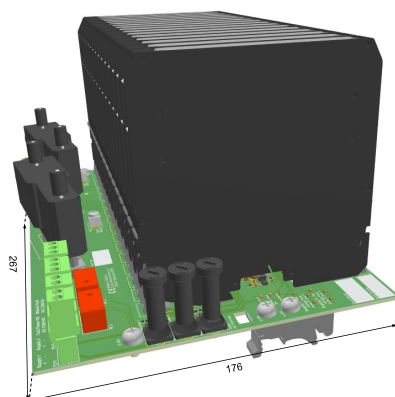
### FEATURES

- Foxboro FBM200 DO Cards board interfaces
- 16 positions Termination Board for up to 32 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	FBM242	1	D5040S, D5048S, D5049S, D5090S, D5091S, D5094S, D5095S, D5096S, D5097S, D5098S, D5099S, D6002S, D6003S
Foxboro FBM200	FBM242	2	D5040D, D5098D, D5099D-108, D6002D, D6003D

### TERMINATION BOARD IMAGE



### TECHNICAL DATA

#### General

**Number of positions:** 16

**Maximum number of channels:** 32

#### 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:** 1.5 A (as total supply).

**Connection:** by polarized plug-in disconnect screw terminal blocks to accommodate terminations up to 2.5 mm<sup>2</sup>.

**Protection fuse:** 4 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 mm<sup>2</sup>.

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

#### I/O Card Interface

**Connection:** 2 x SUBD, 37-poles male connector (require female mating connector).

**Cable:** system cable Type 4.

#### 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 400 g, excluding modules and mounting kit.

**Location:** installation in Safe Area.

**Dimensions:** Width 267 mm, Depth 176 mm, Height 125 mm.

### ORDERING INFORMATION

#### Ordering codes

TB-D5016-INV-003



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.

