

TBE-D5008-GMI-001

8-pos Term. Board for D5000/D6000 Series

This Termination Board with Enclosure (TBE) 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, is provided by D5000 Series Associated Apparatus. The 24 Vdc Power Supply of the TBE is connected to two plug-in terminal blocks, for a redundant power supply.

FEATURES

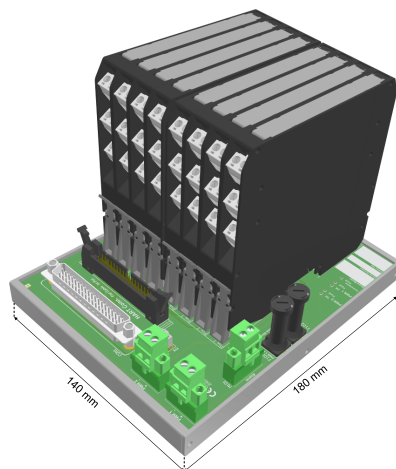
- Universal board interfaces
- Connection to external GMI HART Mux 5700
- 8 positions Termination Board for up to 16 channels
- Lower cables installation and maintenance costs
- Power supplies fault monitoring
- Mounting hardware provided for single DIN Rail mounting kit

SUPPORTED CARDS & MODULES

SYSTEM	I/O CARD	CARDS / BOARDS	MODULES
Any	AI 8 ch	1	D5011S, D5014S, D5015S*, D5016S*, D5072S, D6001S, D6011S, D6014S, D6015S*, D6016S*, D6017S*, D6072S
Any	AI 8 ch	2	D5011D, D5014D, D5016D*, D5072D, D6001D, D6011D, D6014D, D6016D*, D6072D
Any	AO 8 ch	1	D5020S, D6001S, D6020S
Any	AO 8 ch	2	D5020D, D6001D, D6020D
Any	DI 8 ch	1	D5031S, D5032S, D5034S, D5037S, D5038S*, D5039S*, D5093S, D6001S, D6031S, D6032S, D6034S, D6037S, D6038S*, D6039S*
Any	DI 8 ch	2	D5031D, D5032D, D5034D, D5037D, D5038D*, D5038X*, D5039D*, D5039X*, D5093D, D6001D, D6031D, D6032D, D6034D, D6037D, D6038D*, D6038X*, D6039D*, D6039X*
Any	DO 8 ch	1	D5040S, D5048S, D5049S, D5090S, D5091S, D5094S, D5095S, D5096S, D5097S, D5098S, D5099S, D6001S
Any	DO 8 ch	2	D5040D, D5098D, D5099D, D6001D

For more detailed information, refer to Instruction Manual.

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 (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 solid-state relay and activating the corresponding LEDs.

Alarm is issued if:

- 1) Power supply 1 or 2 < 17 Vdc or
- 2) Power supply 1 or 2 > 33 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.

Output rating: 100 mA 35 V (≤ 1 V voltage drop).

I/O Card Interface

Connection: 1 x SUB-D 37 poles male connector (requiring female mating connector).

Cable: CABF034/xx, where "xx" indicates the length expressed in meters (5, 10, 20, 30 available).

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.

Weight: about 450 g, excluding modules (+ 50 g plastic clips or 380 g metal clips).

Location: installation in Safe Area.

Dimensions: Width 140 mm, Depth 180 mm, Height 154 mm.

ORDERING INFORMATION

Ordering codes

TBE-D5008-GMI-001

Accessories

The Termination Board is already provided with plastic DIN-rail clips. Metal clips, replacement plastic clips as well as conformal coating must be ordered as a separate accessory according to the following items.

TBE-FIX-PL-001	Plastic DIN-rail clips
TBE-FIX-MT-001	Metal DIN-rail clips
TBE-MNT-001	Factory assembly of TBE-FIX-MT-001
TBE-CTG-001	Conformal coating

FUNCTION DIAGRAM

Additional installation diagrams may be found in Instruction Manual.

