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TB-D5016-YOK-011

16-pos Term. Board for Yokogawa Centum VP AAV141 AI 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 is provided by D5000 Series Associated Apparatus. The TB allows redundant 24 Vdc power supplies.

FEATURES

- Yokogawa Centum VP AI Cards board interfaces
- Connection to external GMI HART Mux 5700(-110)
- 16 positions Termination Board for up to 32 channels
- · Lower cables installation and maintenance costs
- Power supplies fault monitoring
- Hardware provided for single DIN Rail or wall mounting kit

SUPPORTED CARDS & MODULES

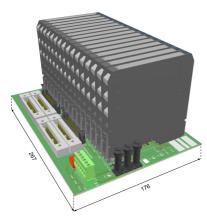
SYSTEM	I/O CARD	CARDS / BOARDS	MODULES
Centum VP	AAV141	1+(1)*1	D5011S, D5014S*², D5015SS, D5016SS, D5072S*²
Centum VP	AAV141	2+(2)*1	D5011D, D5014D*², D5016DS, D5072D*²
Centum VP	AAV141	1+(1)*1	D6002S, D6011S, D6014S*², D6015SS, D6016SS, D6017SS, D6072S*²
Centum VP	AAV141	2+(2)*1	D6000D, D6011D, D6014D*², D6016DS, D6072D*²

For more detailed information, refer to Instruction Manual.

*1 Optional I/O Card redundancy.

*2 Module must be configured as Current Source output.

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, redundant power supplies, 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 mm². 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 < 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 block to accommodate terminations up to 2.5 mm².

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

I/O Card Interface

 $\label{eq:connection: 4 x 40-poles male connector (require female mating connector).}$

Cable: CÁBF038.

HART Mux Interface Connection: 2 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 wall. Weight: about 400 g, excluding modules and mounting options. Location: installation in Safe Area. Dimensions: Width 267 mm, Depth 176 mm, Height 125 mm.

ORDERING INFORMATION

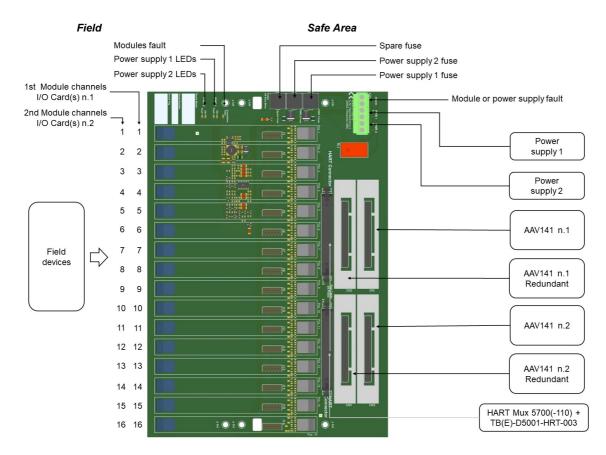
Ordering codes TB-D5016-YOK-011

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 istruction manual.

FUNCTION DIAGRAM

Additional installation diagrams may be found in Instruction Manual.



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Functional Safety Management Certification:

31 Rev.1

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