

# 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

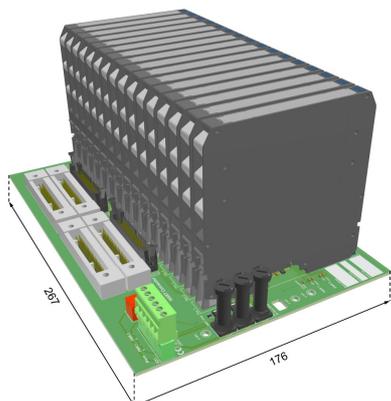
SYSTEM	I/O CARD	CARDS / BOARDS	MODULES
Centum VP	AAV141	1+(1)*1	D5011S, D5014S*2, D5015SS, D5016SS, D5072S*2
Centum VP	AAV141	2+(2)*1	D5011D, D5014D*2, D5016DS, D5072D*2
Centum VP	AAV141	1+(1)*1	D6002S, D6011S, D6014S*2, D6015SS, D6016SS, D6017SS, D6072S*2
Centum VP	AAV141	2+(2)*1	D6000D, D6011D, D6014D*2, 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 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 < 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 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:** 4 x 40-poles male connector (require female mating connector).

**Cable:** CABF038.

#### 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

# FUNCTION DIAGRAM

Additional installation diagrams may be found in Instruction Manual.

