HART Termination Board

Features

- IA 200 replacement FTA
- Designed for FBMs 201, 204, 215 and 237
- 25-pin Sub-D connectors, DCS wiring
- Redundant power supply connections
- · Easy to add line impedance

Function

The Termination Board is designed for easy HiDMux2700 Multiplexer integration with Foxboro IA 200 series controller.

With the Multiplexer integrated into the board and plug-n-play options for the DCS equipment, this provides a clean and clear access to the HART signals, while reducing the need for marshalling cabinets and extra equipment that reduce cabinet space.

The HART Termination Board provides a robust solution for on-line HART communications, interfaces up to 32 field located HART devices, and, it allows the user to replace standard DCS field termination panels.





Assembly



Connection



 Subject to reasonable modifications due to technical advances.
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Supply	
Rated voltage	20 30 V DC
Fusing	315 mA , 5 x 20 mm (0.2 x 0.8 in)
Power loss	0.7 W , with Multiplexer
Reverse polarity protected	yes
HART signal channels (intrinsically safe)	
HART signal channels	
Number of channels	32 unbalanced signal loops
Redundancy	
Supply	yes
Electrical isolation	
HART signal channels	30 V DC
Ambient conditions	
Ambient temperature	0 55 °C (32 131 °F)
Relative humidity	5 90 %, non-condensing
Mechanical specifications	
Core cross-section	2.5 mm ² (16 AWG)
Connection	field side: 2 x 37-pin Sub-D socket control side: 4 x 26-pin connectors RS 485 interface: removable screw terminals power: removable screw terminals
Mass	approx. 500 g
Dimensions	without HiDMux2700: 260 x 120 x 57 mm (10.2 x 4.7 x 2.84 in) with HiDMux2700: 260 x 120 x 190 mm (10.2 x 4.7 x 7.5 in)
Mounting	DIN rail mounting
General information	
Supplementary information	Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.

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Connections

Terminal block	Channels
LBUG 1	1 8
LBUG 2	9 16
LBUG 3	17 24
LBUG 4	25 32

Configuration

Channel	Switch		Communication resistor shorted (valve)	Communication resistor in series (transmitter)
1	S1	1	closed	opened
2		2	closed	opened
3		3	closed	opened
4		4	closed	opened
5		5	closed	opened
6		6	closed	opened
7		7	closed	opened
8		8	closed	opened
9	S2	1	closed	opened
10		2	closed	opened
11		3	closed	opened
12		4	closed	opened
13		5	closed	opened
14		6	closed	opened
15		7	closed	opened
16		8	closed	opened
17	S3	1	closed	opened
18		2	closed	opened
19		3	closed	opened
20		4	closed	opened
21		5	closed	opened
22		6	closed	opened
23		7	closed	opened
24		8	closed	opened
25	S4	1	closed	opened
26		2	closed	opened
27		3	closed	opened
28		4	closed	opened
29		5	closed	opened
30		6	closed	opened
31		7	closed	opened
32		8	closed	opened

Foxboro I/O interfaces

- for Foxboro module FBM 204 (adapter 509004 required)
- for Foxboro module FBM 201
- for Foxboro module FBM 237
- for Foxboro module FBM 215 •

Connection via standard Foxboro cable