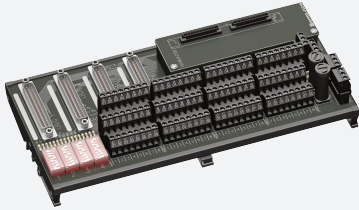# HART Termination Board
HiSHPTB/32/FOX2001C-02

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

CE

HART®
COMMUNICATION PROTOCOL

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.

Connection
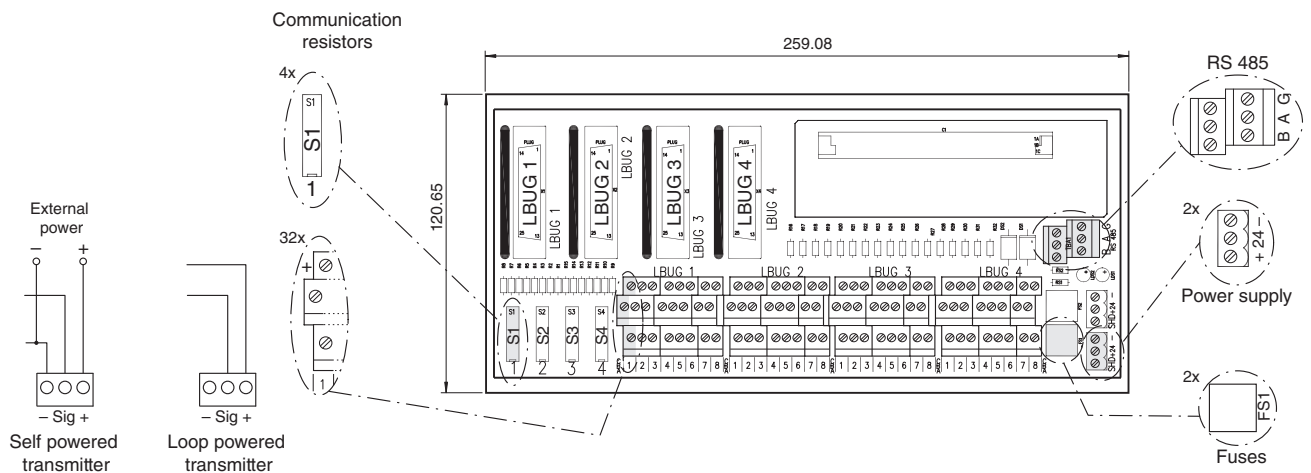
Technical Data

Supply		
Rated voltage	U_r	20 ... 30 V DC
Fusing		315 mA , 5 x 20 mm (0.2 x 0.8 inch)
Power dissipation		0.7 W , with Multiplexer
Reverse polarity protection		yes
HART signal channels (intrinsically safe)		
HART signal channels		
Number of channels		32 unbalanced signal loops
Redundancy		
Supply		yes
Galvanic isolation		

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Technical Data

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 mm² (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	260 x 120 x 190 mm (10.2 x 4.7 x 7.5 inch) (W x H x D) , depth including module assembly with HiDMux2700
Mounting	DIN rail mounting
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.

Additional Information

Connection Assignment

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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Additional Information

- 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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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