

HART Termination Board

HiSHPTB/32/FOX2001C-02



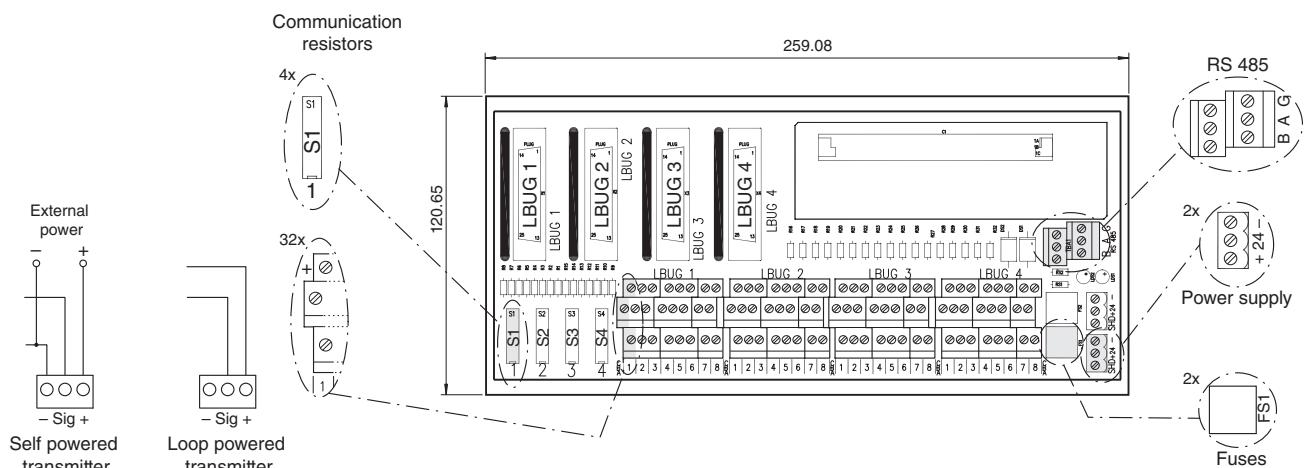
- IA 200 replacement FTA
- Designed for FBMs 201, 204, 215 and 237
- 25-pin Sub-D connectors, PCS wiring
- Redundant power supply connections
- Easy to add line impedance



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

Release date: 2023-05-31 Date of issue: 2023-05-31 Filename: 473496_eng.pdf

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
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Galvanic isolation

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

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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 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	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
2		2	closed
3		3	closed
4		4	closed
5		5	closed
6		6	closed
7		7	closed
8		8	closed
9	S2	1	closed
10		2	closed
11		3	closed
12		4	closed
13		5	closed
14		6	closed
15		7	closed
16		8	closed
17	S3	1	closed
18		2	closed
19		3	closed
20		4	closed
21		5	closed
22		6	closed
23		7	closed
24		8	closed
25	S4	1	closed
26		2	closed
27		3	closed
28		4	closed
29		5	closed
30		6	closed
31		7	closed
32		8	closed

Foxboro I/O Interfaces

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

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