

HART Termination Board

HiSHPTB/32/FOX2001C-02



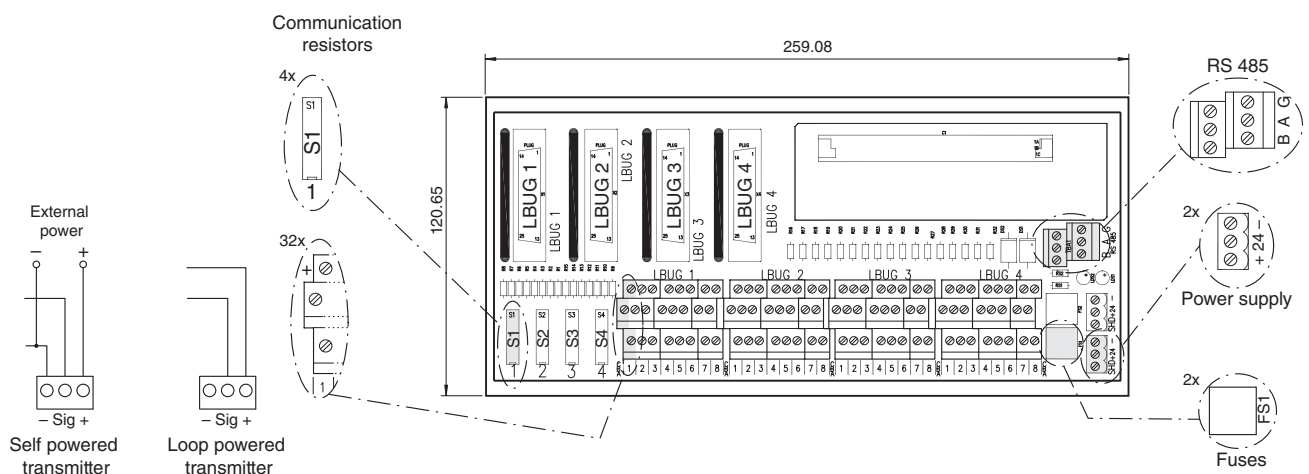
- IA 200 replacement FTA
- Designed for FBMs 201, 204, 215 and 237
- 25-pin Sub-D connectors, PCS wiring
- Redundant power supply connections
- Easy to add line impedance



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

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

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 | 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