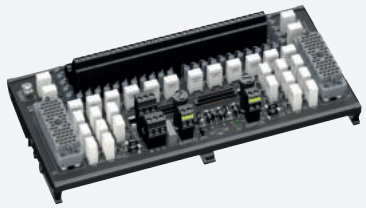
HART Termination Board

HiSHPTB/32/TR-AI-02

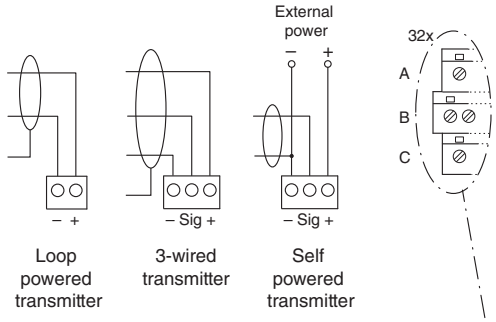


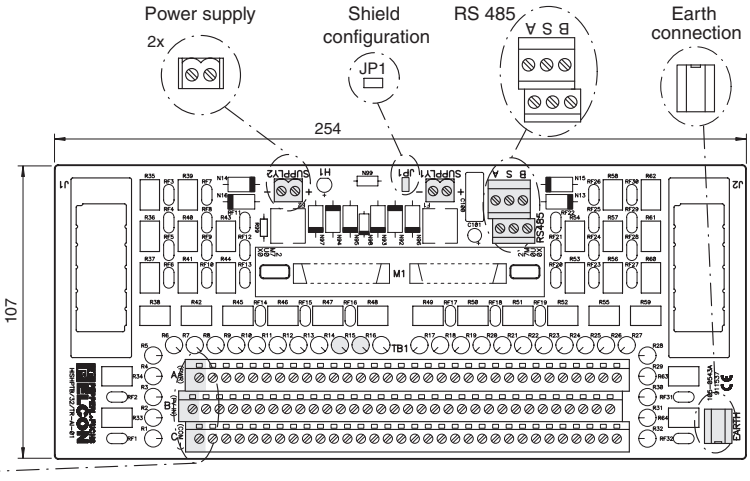
- Triconex 3701 replacement FTA
- 2- or 3-wire or self powered transmitters
- Outputs: 2 x 16 channels, 0 V ... 10 V differential, DC coupled (makes 32 channels)
- Short-circuit protected
- Plug-n-play wiring capabilities

Function

The Termination Board is designed for easy HiDMux2700 Multiplexer integration with the Tricon safety system.
With the Multiplexer integrated into the board and plug-n-play option for the DCS equipment, this provides a very clean access to the HART signals, while reducing the need for marshalling cabinets and reducing equipment that require extra 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		3.15 A , 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: screw terminals control side: 56-pin Elco connector RS 485 interface: removable screw terminals power: removable screw terminals
Mass	approx. 500 g
Dimensions	256 x 125 x 208 mm (10 x 4.9 x 8.2 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

Connector	Channel
J1	1 ... 16
J2	17 ... 32

Configuration

Jumper	Analog input	Galvanic grounding	Capacitive grounding
JP1	RS-485	closed	opened

Interface
Triconex I/O interface
- 3701

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