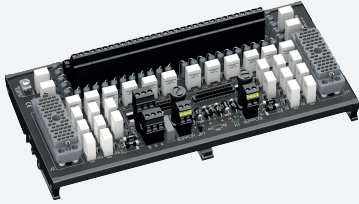


# HART Termination Board

## HiSHPTB/32/TR-AI-01-Y1



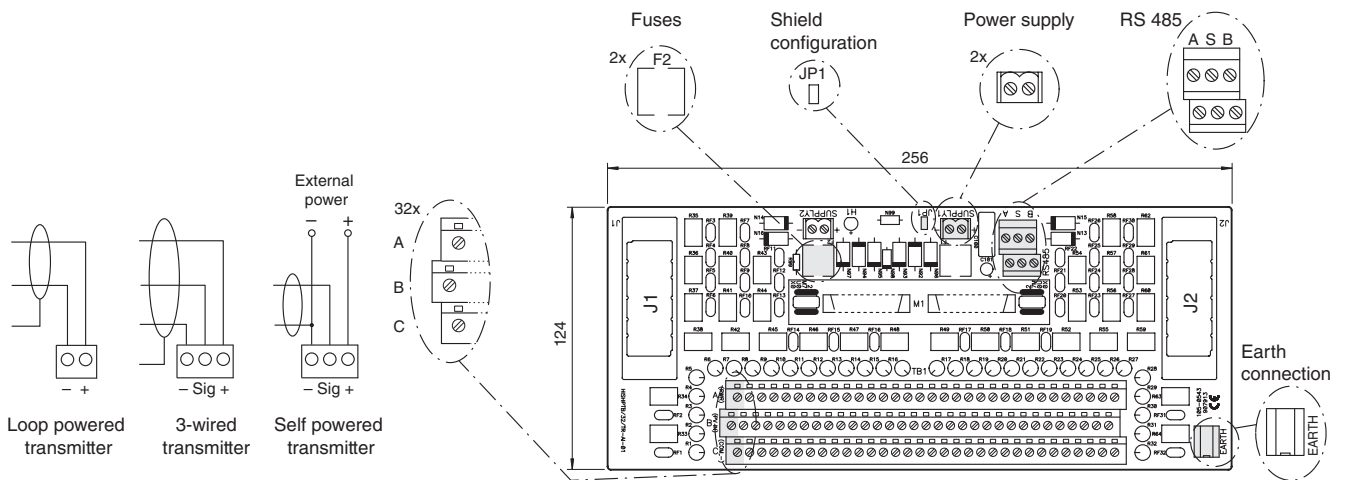
- Triconex 3700A and 3721 replacement FTA
- 2- or 3-wire or self powered transmitters
- Outputs: 2 x 16 channels, 0 V ... 10 V differential, DC coupled (makes 32 channels)
- Short-circuit protected
- Plug-n-play wiring capabilities
- Optimized for use in floating power configurations



### Function

The Termination Board is designed for easy HiDMux2700 Multiplexer integration with the Tricon safety system. This version is a modification of the standard AI termination board (HiSHPTB/32/TR-AI-01) and is specially designed for systems using a floating field power configuration. 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

<b>Supply</b>	
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
<b>HART signal channels (intrinsically safe)</b>	
HART signal channels	
Number of channels	32 unbalanced signal loops
<b>Redundancy</b>	
Supply	yes
<b>Galvanic isolation</b>	

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## Technical Data

HART signal channels	30 V DC
<b>Ambient conditions</b>	
Ambient temperature	0 ... 55 °C (32 ... 131 °F)
Relative humidity	5 ... 90 %, non-condensing
<b>Mechanical specifications</b>	
Core cross section	2.5 mm <sup>2</sup> (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	without HiDMux2700: 256 x 125 x 79 mm (10 x 4.9 x 3.1 inch) (W x H x D) with HiDMux2700: 256 x 125 x 208 mm (10 x 4.9 x 8.2 inch) (W x H x D)
Height	125 mm
Width	256 mm
Depth	208 mm
Mounting	DIN rail mounting
<b>General information</b>	
Supplementary information	Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

## 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
- 3700A
  - 3721