

HART Communication Board

HiATB01-HART-4X8

- 4 x 8-channel
- 24 V DC supply
- Suitable for HART communication
- Dual RS 485 connections
- Used with HiC Termination Boards
- LED indicator for supply status

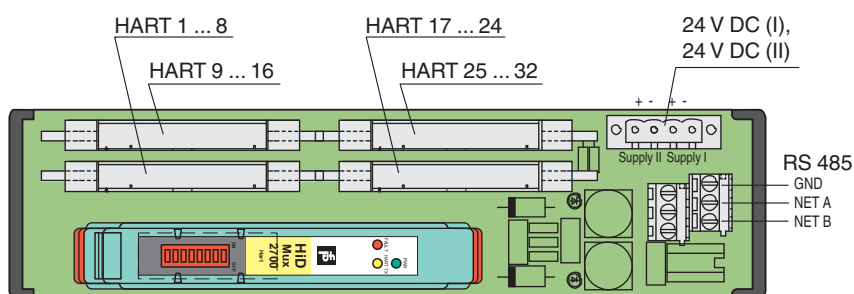
HART Communication Board



Function

This HART Communication Board can be connected with up to 32 channels of a H-System termination board. It contains one slot to mount the 32- channel HART Multiplexer Master type HiD Mux2700. HART interface cables provide easy connection between termination boards and the HART Communication Board. It offers fused redundant power supply connections with LED indication. RS 485 terminals are redundant and can be daisy chained.

Connection



Technical Data

Supply

Connection	X20: terminals 1, 3(+); 2, 4(-)
Nominal voltage	24 V DC SELV/PELV
Voltage drop	0.9 V , voltage drop across the series diode on the termination board must be considered
Ripple	≤ 10 %
Fusing	0.5 A
Power dissipation	≤ 500 mW , without modules
Reverse polarity protection	yes

Interface

Type/number	2 x RS-485
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Redundancy

Technical Data

Supply		Redundancy available. The supply is decoupled, monitored and fused.
Indicators/settings		
Display elements		LED PWR1 (termination board power supply), green LED LED PWR2 (termination board power supply), green LED
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations)
Conformity		
Electromagnetic compatibility		NE 21:2012 For further information see system description.
Degree of protection		IEC 60529:2001
Ambient conditions		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
Storage temperature		-40 ... 70 °C (-40 ... 158 °F)
Mechanical specifications		
Degree of protection		IP20
Connection		
Control side		RS-485 : 1 x screw terminal , black HART : 4 x IDC plug, 34-pin
Supply		pluggable screw terminals , black
Core cross section		screw terminals: 0.25 ... 1.5 mm² (24 ... 12 AWG)
Material		housing: polycarbonate, 10 % glass fiber reinforced
Mass		approx. 210 g
Dimensions		50 x 200 x 163 mm (1.97 x 7.9 x 6.42 inch) (W x H x D) , depth including module assembly
Height		200 mm
Width		50 mm
Depth		163 mm
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
General information		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com .

Safety Information

We recommend that you do not connect the device supply to a DC supply network.
If you connect the device supply to a DC supply network, make sure that appropriate protective measures are implemented to ensure that no transient overvoltages occur.