Features

- APACS/QUADLOG replacement FTA
- Bailey Infi 90 replacement FTA
- Product connector; DCS wiring
- Easy switch selectable configurations for AO and AI

Function

The Termination Board is designed for easy HiDMux2700 Multiplexer integration with the Siemens Moore APACS/Quadlog system or the Bailey Infi 90 system.

With the Multiplexer integrated into the board and plug-n-play options for choosing the correct DCS connection through the Interface Adapter Card (IAC), this provides a clean and clear access to the HART signals, while reducing the need for marshalling cabinets and reduce equipment that require extra cabinet space.
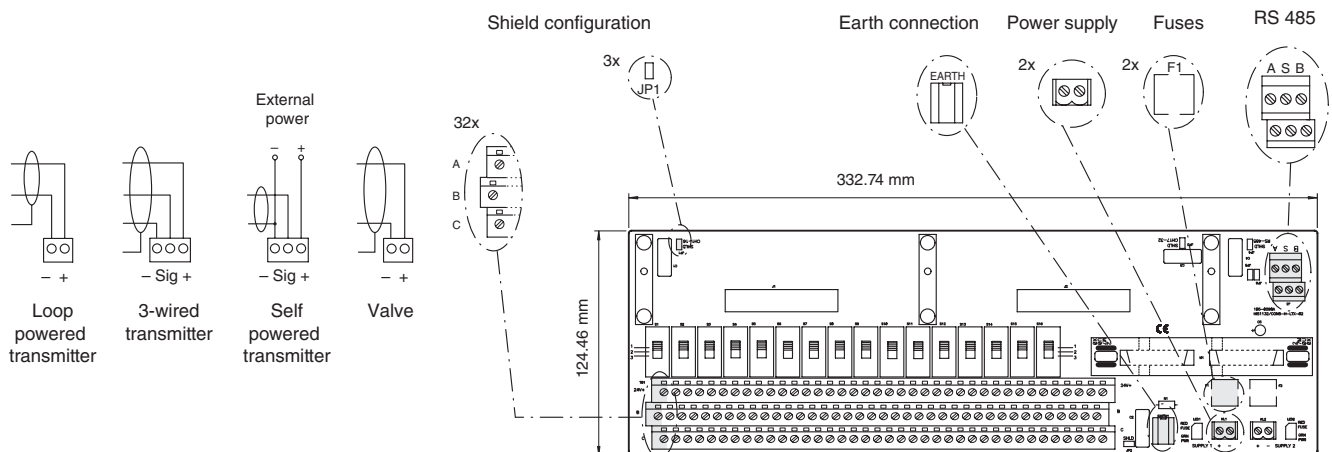
The HART Termination Board provides a robust solution for on-line HART communications, interfaces up to 32 field located HART devices, and, it allows the user to replace the standard DCS field termination panels.

Assembly

CE

HART
COMMUNICATION PROTOCOL

Connection

Shield configuration | Earth connection | Power supply | Fuses | RS 485

Loop powered transmitter

3-wired transmitter

Self powered transmitter

Valve

External power

332.74 mm

124.46 mm

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

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Supply		
Rated voltage	U_N	20 ... 30 V DC
Fusing		3.15 A , 5 x 20 mm (0.2 x 0.8 in)
Power loss		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
Electrical isolation		
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: fixed screw terminals control side: DCS specified connector RS 485 interface: removable screw terminals power: removable screw terminals
Mass		approx. 700 g
Dimensions		without HiDMux2700: 333 x 125 x 79 mm (13.1 x 4.9 x 3.1 in) with Mux2700: 333 x 125 x 208 mm (13.1 x 4.9 x 8.2 in)
Mounting		DIN rail mounting
General information		
Supplementary information		Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.

Configuration

Jumper	Channels	Galvanic grounding	Capacitive grounding
Jumper 1	DCS side channels 1 ... 16	closed	opened
Jumper 2	Field side channels 1 ... 32	closed	opened
Jumper 3	DCS side channels 17 ... 32	closed	opened
Jumper 4	RS 485	closed	opened

Operation	Switch position	Terminals
4 mA ... 20mA mains powered current sources	1	B, C
4 mA ... 20mA loop powered	2	24 V, C
1 V DC ... 5 V DC	3	B, C

Interface adapter cards

Type	Channels/function
Moore APACS/QUADLOG	
IA-MP-SAM-NIS (1 per 1132)	32 AI/AO inputs
IA-MP-VIM-ISI (2 per 1132)	32 AI inputs
IA-MP-EAM-ISI (2 per 1132)	32 AI inputs
IA-MP-HFM-ISI (2 per 1132)	32 AI inputs
Bailey Infi 90	
IA-BA-AI-01-I-R (2 per 1132)	32 AI inputs HART Boostin
IA-BA-AI-03-BC (2 per 1132)	32 AI redundant inputs
IA-BA-AO-HFT-01 (2 per 1132)	32 AO HART filtered inputs

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