

**Features**

- Yokogawa Centum 3000 CS AAI135 replacement FTA
- 32 channels of I/O
- 2- or 3-wire or self powered transmitters
- Short-circuit protected
- Plug-n-play wiring capabilities

**Function**

The Termination Board designed for easy HiDMux2700 Multiplexer integration with the Yokogawa Centum 3000 CS system.

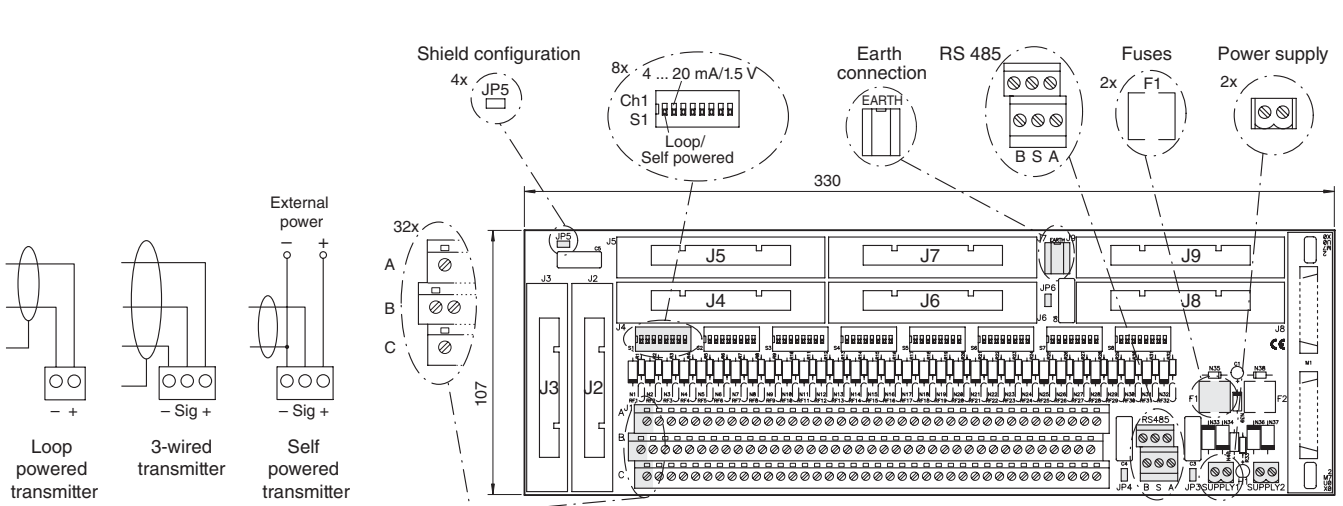
With the Multiplexer integrated into the board and plug-n-play option for the DCS equipment, this provides a very clean access to the HART signals, while reducing the need for marshalling cabinets and reducing equipment that require extra cabinet space.

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.

**Assembly**



**Connection**



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

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<b>Supply</b>		
Rated voltage	U <sub>N</sub>	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		no
<b>HART signal channels (intrinsically safe)</b>		
HART signal channels		
Number of channels		32 unbalanced signal loops
<b>Redundancy</b>		
Supply		no
<b>Electrical isolation</b>		
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: KS connector (proprietary) RS 485 interface: removable screw terminals power: removable screw terminals
Mass		approx. 500 g
Dimensions		without HiDMux2700: 330 x 107 x 79 mm (12.9 x 4.2 x 3.1 in) with HiDMux2700: 330 x 107 x 208 mm (12.9 x 4.2 x 8.2 in)
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> .

## Connections

Connector	Channels
J1	Channel 1 ... 32
J2	Channel 1 ... 8, primary
J3	Channel 1 ... 8, secondary
J4	Channel 9 ... 16, primary
J5	Channel 9 ... 16, secondary
J6	Channel 17 ... 24, primary
J7	Channel 17 ... 24, secondary
J8	Channel 25 ... 32, primary
J9	Channel 25 ... 32, secondary

**Configuration**

		Switch	Field and DCS have the same signal (4 mA ... 20 mA or 1 V ... 5 V)	Convert a 4 mA ... 20 mA signal from the field into the 1 V ... 5 V signal for DCS	Switch	Self powered device	Loop powered device
S1	Channel 1	1	Off	On	2	Off	On
	Channel 2	3	Off	On	4	Off	On
	Channel 3	5	Off	On	6	Off	On
	Channel 4	7	Off	On	8	Off	On
S2	Channel 5	1	Off	On	2	Off	On
	Channel 6	3	Off	On	4	Off	On
	Channel 7	5	Off	On	6	Off	On
	Channel 8	7	Off	On	8	Off	On
S3	Channel 9	1	Off	On	2	Off	On
	Channel 10	3	Off	On	4	Off	On
	Channel 11	5	Off	On	6	Off	On
	Channel 12	7	Off	On	8	Off	On
S4	Channel 13	1	Off	On	2	Off	On
	Channel 14	3	Off	On	4	Off	On
	Channel 15	5	Off	On	6	Off	On
	Channel 16	7	Off	On	8	Off	On
S5	Channel 17	1	Off	On	2	Off	On
	Channel 18	3	Off	On	4	Off	On
	Channel 19	5	Off	On	6	Off	On
	Channel 20	7	Off	On	8	Off	On
S6	Channel 21	1	Off	On	2	Off	On
	Channel 22	3	Off	On	4	Off	On
	Channel 23	5	Off	On	6	Off	On
	Channel 24	7	Off	On	8	Off	On
S7	Channel 25	1	Off	On	2	Off	On
	Channel 26	3	Off	On	4	Off	On
	Channel 27	5	Off	On	6	Off	On
	Channel 28	7	Off	On	8	Off	On
S8	Channel 29	1	Off	On	2	Off	On
	Channel 30	3	Off	On	4	Off	On
	Channel 31	5	Off	On	6	Off	On
	Channel 32	7	Off	On	8	Off	On

Jumper	Analog input	Galvanic grounding	Capacitive grounding
JP3	RS 485	closed	opened
JP4	Field side channels 1 ... 32	closed	opened
JP5	DCS side channels 1 ... 16	closed	opened
JP6	DCS side channels 17 ... 32	closed	opened

**Yokogawa I/O interface**

- AAI135

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