Temperature Multi-Input Junction Box, Stainless Steel

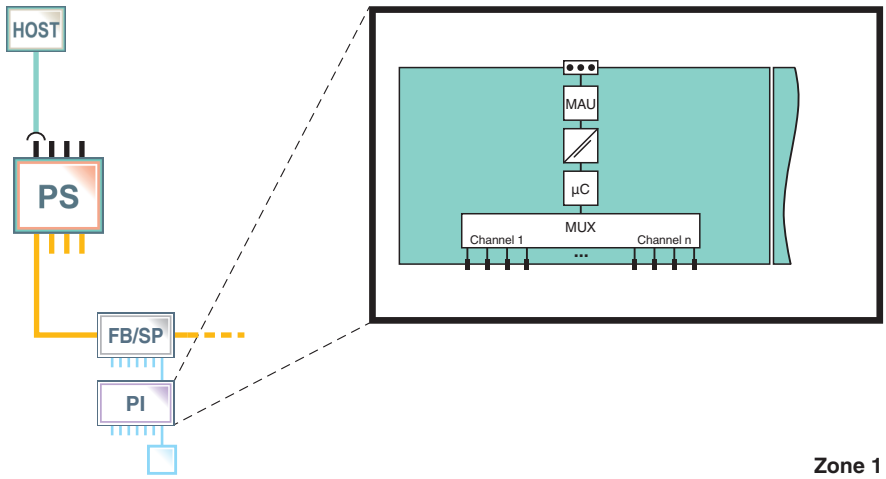
F.TI0.S12.*08.F.0.***.***.**00

- 8 channel universal temperature interface
- Stainless steel, electropolished, IP66
- Configurable cable entries for bus lines and field signal lines
- International approvals
- For FOUNDATION Fieldbus H1
- Installation in Zone 1 and Zone 2

Function

This fieldbus junction box holds a temperature multi-input device for transferring signals from resistance temperature measuring sensors and thermocouples, as well as resistance and millivolt signals via FOUNDATION Fieldbus H1. The fieldbus junction box with 8 inputs can be installed in Zone 1 with sensors located in Zone 0.
Electropolished stainless steel 316L provides high corrosion and impact resistance at a very wide temperature range.
Bus and field signal line entries can be chosen individually from a range of cable glands and stopping plugs. A breather is included by default. Tag plate and grounding bar are available as options.
This junction box is available pre-wired, with all accessories, for fast ordering, delivery, site installation, and commissioning.

Connection



Zone 1

Technical Data

General specifications		
Design / Mounting		Outside installation
Installed components		Temperature Multi-Input Device RD0-TI-Ex8.FF.ST For technical data on installed electronic component see data sheet.
Conformity		
Degree of protection		EN 60529
Impact resistance		EN 60079-0
Ambient conditions		
Ambient temperature		-30 ... 55 °C (-22 ... 131 °F) , (extended temperature range available on request)
Storage temperature		-40 ... 70 °C (-40 ... 158 °F)

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Technical Data

Relative humidity	< 75 % (annual mean) < 95 % (30 d/year), no moisture condensation
Impact resistance	7J
Mechanical specifications	
Enclosure cover	detachable hinged door with captive retaining screws
Degree of protection	IP66
Cable entry	cable gland and stopping plug options see separate table
Material	
Housing	stainless steel 1.4404 / AISI 316L
Surface	electropolished
Seal	Neoprene, fire-resistant, one piece
Material thickness	enclosure body, enclosure cover, mounting plate: 1.5 mm gland plate: 3.0 mm
Dimensions	(W x H x D) 300 x 200 x 120 mm (1 x RD0-TI-Ex8.FF.ST)
Mounting	thru-holes Ø10 mm
Grounding	grounding bolt M10 , brass
Data for application in connection with hazardous areas	
EU-Type Examination Certificate	PTB 07 ATEX 1061 X (assembled Junction Box) , for additional certificates see www.pepperl-fuchs.com
Marking	Ⓔx II 2(1)G Ex ia [ia Ga] IIC T4 Gb Ⓔx II 2(1)D Ex tb [ia Da] IIIC T135°C Db
Certificate	PTB 17 ATEX 1011 X (assembled Junction Box) , for additional certificates see www.pepperl-fuchs.com
Marking	Ⓔx II 3G Ex ic IIC T4 Gc Ⓔx II 3G Ex nA IIC T4 Gc Ⓔx II 3D Ex tc IIIC T135°C Dc
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012 , EN 60079-11:2012 , EN 60079-15:2010 , EN 60079-31:2014
International approvals	
IECEx approval	IECEx PTB 07.0036 X , Zone 1 , suitable Junction Box on request IECEx PTB 09.0016 X , Zone 2 , suitable Junction Box on request
INMETRO	TÜV 13.1143
General information	
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.

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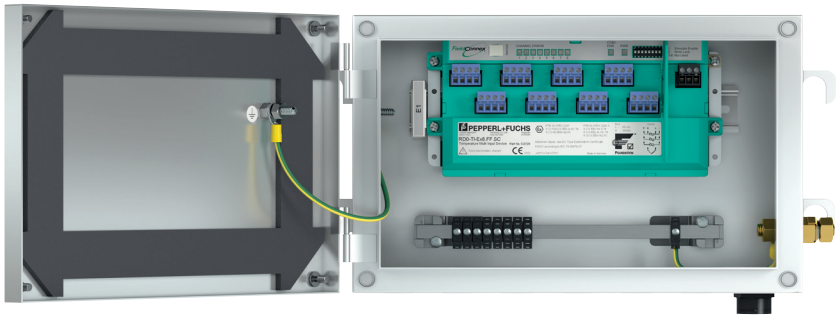
Assembly



Matching System Components

	**RD0-TI-Ex8.FF.***

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Product Versions

Cable Gland Versions

Type	Cable gland					Stopping plug		
	GP2	GB2	GS2	GN2	GA2	H02	H03	H04
Mechanical specifications								
Protection degree	IP66	IP66	IP66	IP66	IP66	IP66	IP66	IP66
Material	polyamide	nickel-plated brass	stainless steel	nickel plated brass	stainless steel	polyamide	nickel-plated brass	stainless steel
Thread	M20	M20	M20	M20	M20	M20	M20	M20
Inner sheath (mm)	–	–	–	7 ... 12	7 ... 12	–	–	–
Outer sheath (mm)	5.5 ... 13	3 ... 12	3 ... 12	10 ... 16	10 ... 16	–	–	–
Cable								
Suitable for armored cable	no	no	no	yes	yes	–	–	–
Data for application in conjunction with hazardous areas								
Type of protection	Ex e	Ex de	Ex de	Ex de	Ex de	Ex e	Ex de	Ex de

Type Code

Electronic type

F.TI0 Enclosure solution for RD0-TI-Ex8.FF.ST

Enclosure material

S Stainless steel 316, electropolished, IP66

Number of installed devices

12.A08 1 x RD0-TI-Ex8.FF.ST for installation in Zone 1

12.B08 1 x RD0-TI-Ex8.FF.ST for installation in Zone 2

Fieldbus type

F Suitable for FOUNDATION Fieldbus H1

Spur terminals

0 Spurs directly wired to RD0-TI-Ex8.FF.ST

Bus line entries

Field signal line entries

GP2	**GP2**	Cable gland M20, polyamide, Ex e, IP66
GB2	**GB2**	Cable gland M20, nickel plated brass, Ex e, IP66
GS2	**GS2**	Cable gland, M20, stainless steel, Ex e, IP66
GN2	**GN2**	Cable gland M20, nickel plated brass, Ex de, IP66, for armoured cable
GA2	**GA2**	Cable gland M20, stainless steel, Ex de, IP66, for armoured cable
H02	**H02**	Stopping plug M20, polyamide, Ex e, IP66
H03	**H03**	Stopping plug M20, nickel plated brass, Ex de, IP66
H04	**H04**	Stopping plug M20, stainless steel, Ex de, IP66

Tag plate

A Tag plate, traffolyte, 120 x 30 mm

B Tag plate, stainless steel, 120 x 30 mm

0 No tag plate

Grounding bar

1 Grounding bar 10 x 3 mm, equipped with grounding terminals

0 No grounding bar installed

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