

# Temperature Multi-Input Junction Box, Polyester (GRP)

F.TI0.P12.\*08.P.0.\*\*\*.\*\*\*.\*\*00



- 8 channel universal temperature interface
- Glass fiber reinforced polyester, impact resistant, IP66
- Configurable cable entries for bus lines and field signal lines
- International approvals
- For PROFIBUS PA
- Installation in Zone 1 and Zone 2



## Function

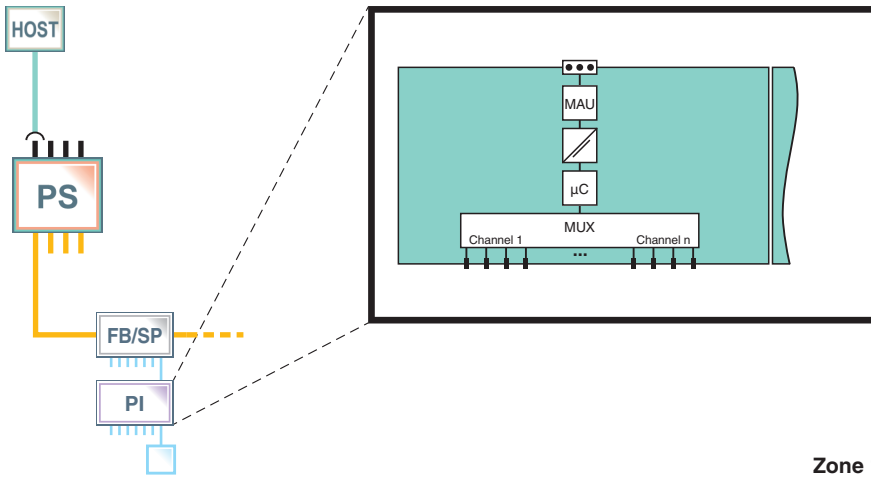
This fieldbus junction box holds a temperature multi-input device for transferring signals from resistance temperature measuring sensors and thermocouples, as well as resistance and millivolt signals via PROFIBUS PA. The fieldbus junction box with 8 inputs can be installed in Zone 1 with sensors located in Zone 0.

Glass fiber-reinforced polyester provides corrosion resistance and is light weight. The surface resistance avoids electrostatic charge.

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.PA.ST For technical data on installed electronic component see data sheet.

### Conformity

Degree of protection	EN 60529
Impact resistance	EN 60079-0

### Ambient conditions

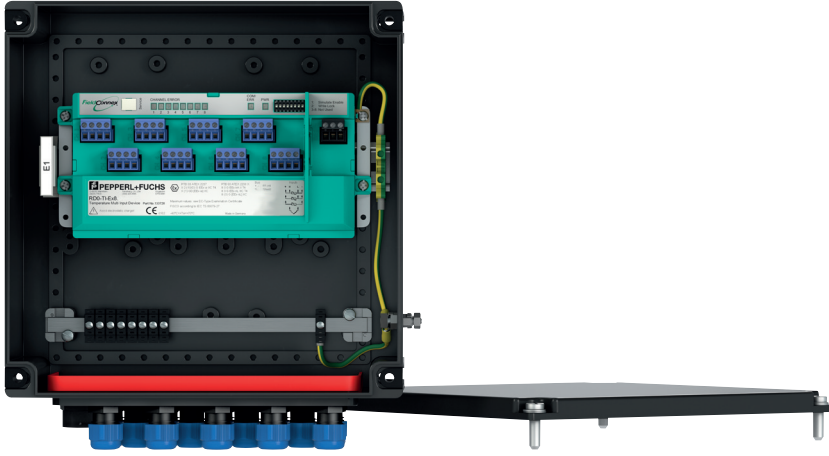
Ambient temperature	-30 ... 55 °C (-22 ... 131 °F) , (extended temperature range available on request)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)

Release date: 2022-07-04 Date of issue: 2022-07-04 Filename: t166122\_eng.pdf


## Technical Data

Relative humidity	< 75 % (annual mean) < 95 % (30 d/year), no moisture condensation
Impact resistance	7J
<b>Mechanical specifications</b>	
Enclosure cover	detachable cover with retaining screws
Degree of protection	IP66
Cable entry	cable gland and stopping plug options see separate table
<b>Material</b>	
Housing	polyester , impact resistant, glass fiber reinforced
Surface	black molded finish (RAL 9005)
Surface resistance	< 10 <sup>9</sup> Ω
Water absorption	< 6 %
Seal	silicone , one-piece
Grounding plate	brass
Material thickness	grounding plate: 3 mm
Dimensions	(W x H x D) 271 x 271 x 136 mm (1 x RD0-TI-Ex8.FF.ST)
Mounting	thru-holes Ø6.5 mm
Grounding	grounding bolt M6 , Stainless steel
<b>Data for application in connection with hazardous areas</b>	
EU-type examination certificate	PTB 07 ATEX 1061 X (assembled Junction Box) , for additional certificates see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a>
Marking	Ⓜ II 2(1)G Ex ia [ia Ga] IIC T4 Gb Ⓜ 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 <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a>
Marking	Ⓜ II 3G Ex ic IIC T4 Gc Ⓜ II 3G Ex nA IIC T4 Gc Ⓜ II 3D Ex tc IIIC T135°C Dc
<b>Directive conformity</b>	
Directive 2014/34/EU	EN 60079-0:2012 , EN 60079-11:2012 , EN 60079-15:2010 , EN 60079-31:2014
<b>International approvals</b>	
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 approval	TÜV 13.1143
<b>General information</b>	
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 <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

## Assembly



## Matching System Components

	<b>RD0-TI-Ex8.PA.1*</b>	Temperature Multi-Input Device for Cabinet Installation
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## Product Versions

### Cable Gland Versions

Type	Cable gland					Stopping plug		
	GP2	GB2	GS2	GN2	GA2	H02	H03	H04
<b>Mechanical specifications</b>								
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	-	-	-
<b>Cable</b>								
Suitable for armored cable	no	no	no	yes	yes	-	-	-
<b>Data for application in conjunction with hazardous areas</b>								
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.PA.ST

#### Enclosure material

**P** Glass-fiber reinforced polyester, IP66

#### Number of installed devices

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

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

#### Fieldbus type

**P** Suitable for PROFIBUS PA

#### Spur terminals

**0** Spurs directly wired to RD0-TI-Ex8.PA.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 armored cable

**GA2** **GA2** Cable gland M20, stainless steel, Ex de, IP66, for armored 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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Predefined characters indicate pre-set attributes.