

**Junction Box**  
**Mounting: To be mounted on the wall**

**Type:**  
**BOX-EEX**

Sheet No.  
 7-100 V2.1

10131-E010818V2.1



**Application:**

- For Off-Shore
- For storage rooms
- For damp rooms
- For freezer compartments
- For storage containers

**Properties:**

- Wall mounting
- For terminals or temperature transmitter
- Resists shocks and vibrations
- IP67

**Approved by:**

- GOST/TRCU
- DNV-2001-OSL-ATEX-0176
- IECEx DNV 09.005U
- IECEx DNV 09.004
- CSA 2036776



**MECHANICAL SPECIFICATIONS:**

**Material housing:**

AISI 316L, / W. No. 1.4404  
 Material thickness Min. 1.5 mm  
 (depending on the box size)

**Surface treatment:**

Acidized Pickling as standard

**Lid:**

Mounting Screws  
 Lid gasket Neoprene

Earthing Internal earth bar/bracket  
 External earth bracket  
 Drain plug Optional

**Dimensions:** -----

121009, W12, H10, D9  
 151510, W15, H15, D10

**Standard:**

IEC/EN 60079-0, IEC/EN 60079-7  
 IEC/EN 61241-0, IEC/EN 61241-1

**Ex-Code:**

Ex e II T6/T4 / Ex [ia] IIC T6  
 Ex tD A21 T85°C - T110°C  
 II 2 GD and EPL Gb/Db

Ambient temperatures:  
 -40/+60°C

		Terminal size (mm <sup>2</sup> )			
		1,5	2,5	4	6
Current (A)	10	15			
	16	6	10		
	20		6	10	
	25			6	10

		Terminal size (mm <sup>2</sup> )				
		1,5	2,5	4	6	10
Current (A)	10	37				
	16	16	25			
	20		16	25		
	25			16	25	
	31				18	
	35					21
	43					15


**ELECTRICAL SPECIFICATIONS**

**-----Cable 1 (pre-mounted):**

SS (Silicone-Silicone) max. 180°C  
 SBS (Silicone-Inner Braided-Silicone) max. 180°C  
 TBT (Teflon-Inner Braided-Teflon) max. 250°C  
 None

**-----Cable 1 length [m]:**

Link for further information: [Pt100 Tolerance](#)

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**Calibration:**

Temperature calibration are used to verify and certify the sensor to have the correct accuracy. We can do either: "In house" or "Accredited" calibration. Accredited is certified by 3.e part. Normally we do a calibration in 3 points.

**Enhanced performance services:**

Cold applications (below -50°C) will influence the material and the measurement. CRYO treatment is needed to ensure a correct and working sensor down to -196°C.

A sensor will always drift over time, especially when there are high temperature fluctuations.

With "Ageing treatment" we stabilize the sensor to ensure a minimum drift over time. The benefits are long term stability, more correct measurement and easier planning of calibration periods.

**Documentation:**

Please order the correct documentation when ordering the sensor.



**SIGNAL PROCESSING**

**Terminal block mounted.** -----

**Programmable mounted transmitter**-----

Measuring range min/max: -200/+850°C  
 Output: 2-wire, 4-20 mA  
 Min. span: 25°C  
 Ambient temperature min/max: -40/+85°C

- [5333A Uninsulated for RTD](#)
- [5333D EEX Uninsulated for RTD](#)
- [5332A Uninsulated for RTD](#)
- [5332D EEX Uninsulated for RTD](#)
- [5334A Uninsulated for TC](#)
- [5334B Galvanic Isolated TC](#)
- [5331A Galvanic Isolated RTD / TC](#)
- [5331D EEX Galvanic Isolated RTD / TC](#)
- [5335A Hart 5 Protocol Standard](#)
- [5335D Hart 5 Protocol CSA, FM, ATEX, IECEx](#)
- [5337A Hart 5 & 7 Protocol](#)
- [5337D Hart 5 & 7 Protocol CSA, FM, ATEX, IECEx](#)



**Documentation**

- Documentation**
- Certificate: 3.1 Material
  - Certificate of origin
  - Certificate of conformity

Other on request

Transmitter Type:			
4 mA =		20 mA =	
	C°		C°

- [5350A Profibus standard](#)
- [5350B Profibus ATEX, FM and CSA](#)

Link for further information to [Rail mounted transmitter](#)

Link for further information: [Transmitter Overview](#)