



# TX2071 • TX2072 • TX2075 Temperature Sensors Datasheet & User Information

Temperature protection for heavy duty and arduous applications

**Environments:** Mining • Tunnelling • Process Plants • Heavy Machinery

## Features

- Designed for use in harsh operating environments and hazardous areas.
- Rugged, shock resistant construction with a choice of accessories and cable protection for convenient installation on machinery, vessels, and structures.
- Vibration protected PT100 sensing element up to 200 °C
- Ingress protection to IP67.
- Choice of Inline format, low-profile angled format and surface sensing format.
- Flexible PTFE connecting cable for 2 wire operation, or 4 wire temperature compensation for increased accuracy.
- Available with corrosion-resistant galvanized steel spiral cable protection.
- Choice of sensing probe length and connecting cable length to specific installation requirements.
- Passive output suitable for use with certified intrinsically safe apparatus.

### TX2071

Angled sensor probe



### TX2072

Inline sensor probe



### TX2075

Surface sensor probe



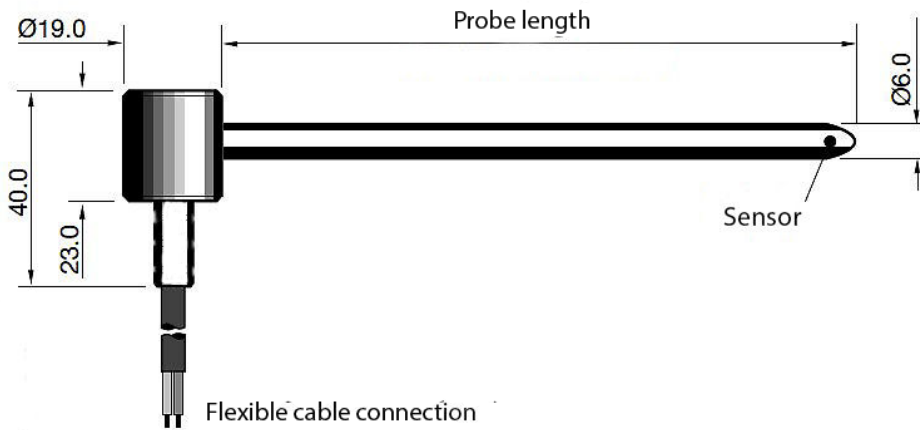
## Technical Information

Sensing device:	PT100. DIN43760. BS1904 class B.
Resistance :	100 $\Omega$ at 0 °C 138.5 $\Omega$ at 100 °C
Connecting cable length:	Minimum: 1 m Maximum: 30 m
Accuracy:	2 %
Maximum static pressure:	100 bar
Temperature limit:	250 °C
Connection:	4 core PTFE flexible cable
Sensing probe insertion length:	Minimum 20 mm Maximum 530 mm

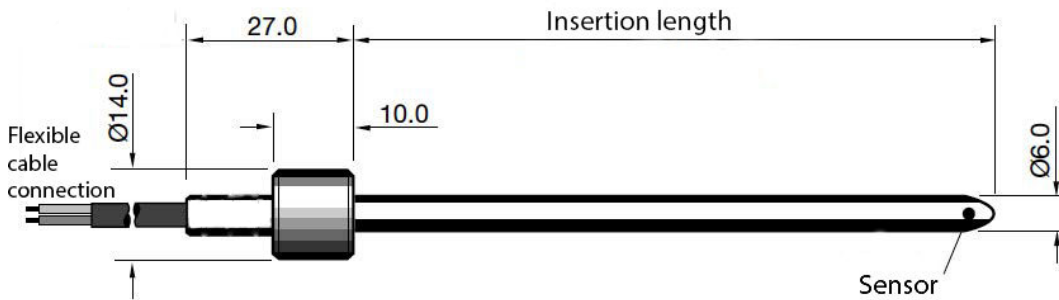


## Dimensions

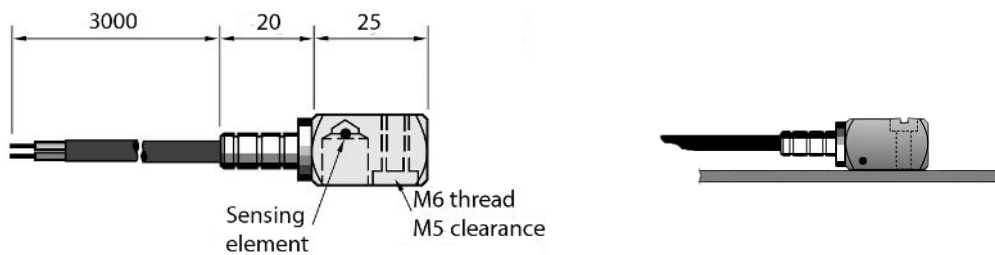
### TX2071 Angled Sensor Probe



### TX2072 Inline Sensor Probe



### TX2075 Surface Sensor Probe

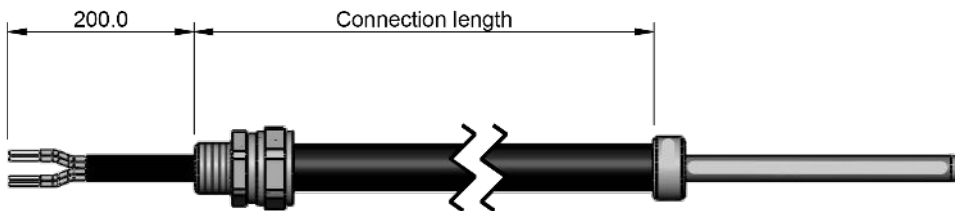




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## Cable Protection

The flexible connecting cable can be sheathed with high-grade flexible conduit for additional mechanical protection in arduous operating conditions. The conduit length can be specified and an additional 200 mm length of flexible cable is added during manufacture for installation wiring.

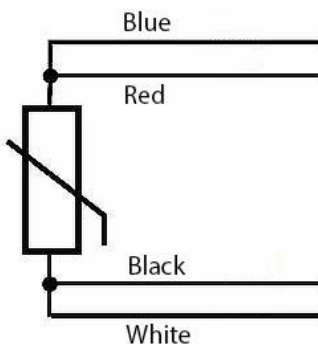


- Corrosion-resistant galvanized steel spiral protection
- PVC waterproof sheath
- Temperature range: -20 °C to +100 °C
- Fully assembled with nickel-plated brass M16 end fitting & M16/M20 reducer

## User Information

Sensing Device: PT100  
100  $\Omega$  at 0 °C  
138.5  $\Omega$  at 100 °C

Maximum Static Pressure: 100 bar  
Maximum Temperature: 250 °C



- Four-wire connection for line temperature compensation
- Use **Red** and **Black** for two-wire connected systems
- For use only with PT100-compatible temperature monitoring apparatus



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## Order Reference

Standard formats available TX2071 and TX2072			
Probe Insertion Length	Connection Length	Order Code	
		With Flexible Cable	With Flexible Conduit
20 mm	1 m	<b>01.00</b>	<b>01.01</b>
	3 m	<b>02.00</b>	<b>02.01</b>
40 mm	3 m	<b>03.00</b>	<b>03.01</b>
	9 m	<b>04.00</b>	<b>04.01</b>
55 mm	3 m	<b>05.00</b>	<b>05.01</b>
	5 m	<b>06.00</b>	<b>06.01</b>
	8 m	<b>07.00</b>	<b>07.01</b>
60 mm	3 m	<b>08.00</b>	<b>08.01</b>
75 mm	3 m	<b>09.00</b>	<b>09.01</b>
	6 m	<b>31.00</b>	<b>31.01</b>
80 mm	5 m	<b>10.00</b>	<b>10.01</b>
	10 m	<b>11.00</b>	<b>11.01</b>
85 mm	5 m	<b>34.00</b>	<b>34.01</b>
100 mm	2 m	<b>12.00</b>	<b>12.01</b>
	3 m	<b>13.00</b>	<b>13.01</b>
	4 m	<b>14.00</b>	<b>14.01</b>
	5 m	<b>15.00</b>	<b>15.01</b>
	6 m	<b>33.00</b>	<b>33.01</b>
	7.5 m	<b>16.00</b>	<b>16.01</b>
	8 m	<b>27.00</b>	<b>27.01</b>
	10 m	<b>17.00</b>	<b>17.01</b>
	30 m	<b>36.00</b>	<b>36.01</b>
130 mm	2 m	<b>18.00</b>	<b>18.01</b>
	3 m	<b>19.00</b>	<b>19.01</b>
	5 m	<b>20.00</b>	<b>20.01</b>
131 mm	3 m	<b>35.00</b>	<b>35.01</b>
145 mm	5 m	<b>21.00</b>	<b>21.01</b>
	6 m	<b>30.00</b>	<b>30.01</b>
180 mm	3 m	<b>22.00</b>	<b>22.01</b>
200 mm	3 m	<b>28.00</b>	<b>28.01</b>
	4 m	<b>29.00</b>	<b>29.01</b>
300 mm	2 m	<b>23.00</b>	<b>23.01</b>
	3 m	<b>24.00</b>	<b>24.01</b>
	10 m	<b>25.00</b>	<b>25.01</b>
325 mm	3 m	<b>26.00</b>	<b>26.01</b>
530 mm	6 m	<b>32.00</b>	<b>32.01</b>

Standard Format TX2075		
	Order Code	
	Flexible Cable	Flexible Conduit
0 - 200 °C	<b>13.05.00</b>	<b>13.05.01</b>
3 m cable length		

Certification	
General Purpose	EAC Grp I & II
<b>.00</b>	<b>.14</b>

Order code examples	
Order Code	Description
<b>TX2071.01.00.00</b>	TX2071 20mm probe insertion length 1 m connection length with flexible cable General Purpose
<b>TX2072.05.01.14</b>	TX2072 55mm probe insertion length 3 m connection length with flexible conduit EAC
<b>TX2075.13.05.01.00</b>	TX2075 0 - 200 °C 3 m cable length flexible conduit General Purpose

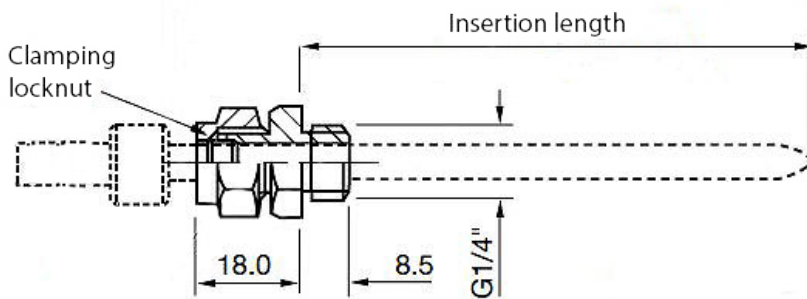


## Mounting Accessories

Mounting devices for use with temperature sensing probes, with clamping locknut for ease of maintenance, and convenient insertion depth adjustment.

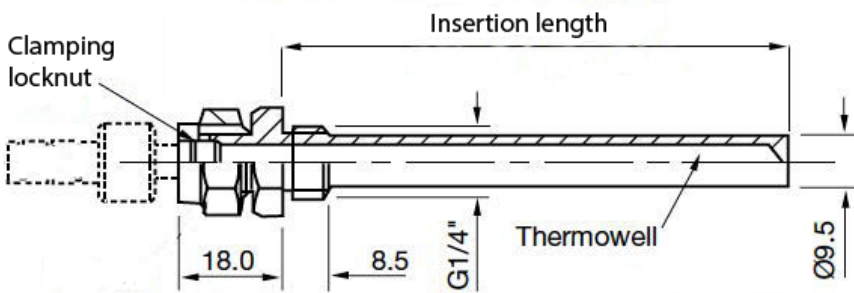
Material: Nickel-plated brass  
Mounting: G 1/4 inch male  
Maximum Static Pressure: 100 bar

### TX2073 Mounting Bush



Insertion length = probe length - 20 mm

### TX2074 Mounting Pocket



Probe length = insertion length + 10 mm