

**Sensors:**

PT100

PT1000

Ni120

Ni1000

PTC

NTC

K type

J type



**RoHS**

**FEATURES**

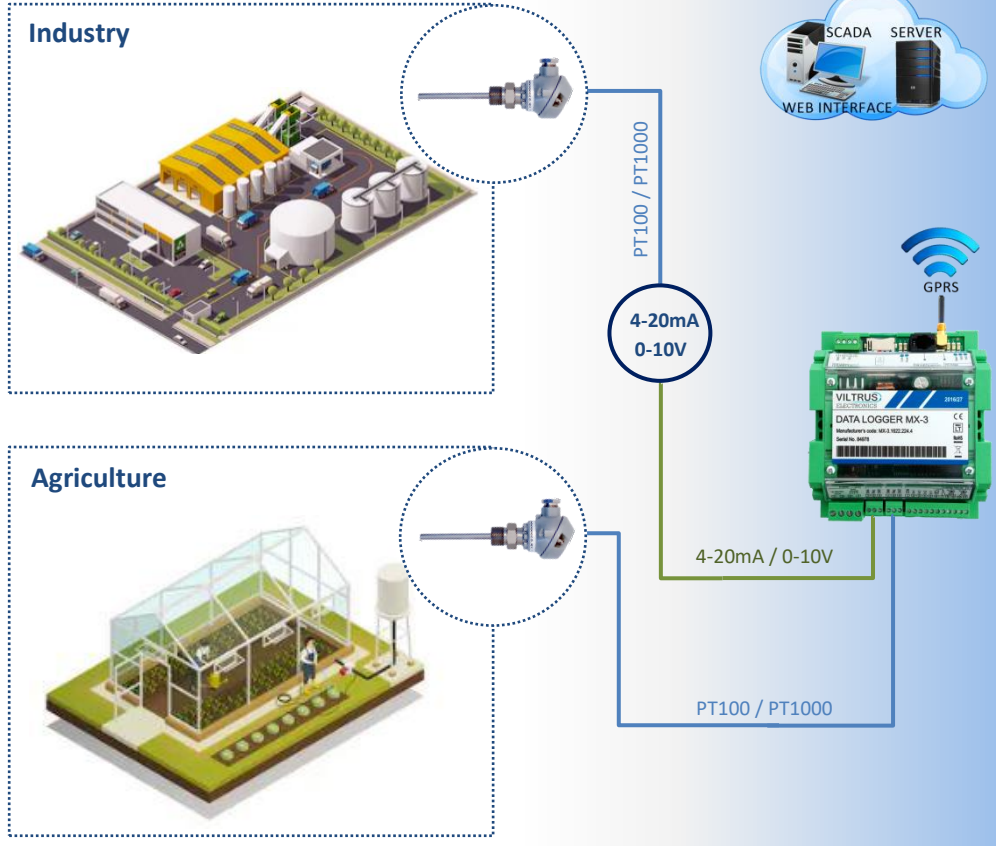
- Thermowell are made from AISI304 (1.4301) or 316L (1.4404) stainless steel
- High quality, robust, extra small aluminum connection head
- Resistance thermometer class A or B, thermocouple 1 or 2 class
- For temperatures from -50 to +400 °C
- Single or double temperature probe
- Short response time
- 2-wire, 3-wire or 4-wire circuit
- Customer – specific thermowell lengths, diameter and process dimensions

**TM-3** Temperature sensor with extra small / compact connection head is high quality, robust temperature sensor. The application areas can be in the air conditioning, refrigeration industry, in the construction of HVAC systems, laboratory technology or farming and agriculture. Rubber gasket between head base and cover and metal high quality gromet ensure daily water-proof (IP65) use in dry or humid rooms with the operating temperature between -30 to +85 °C while measurement range is from -50 to 400 °C.

**Application**

- Water/Heat monitoring
- Marine
- Laboratory
- Heat substation metering
- Machinery
- HVAC
- Solar power plant monitoring

- Industrial monitoring
- Commercial monitoring
- Residential monitoring
- Environmental monitoring



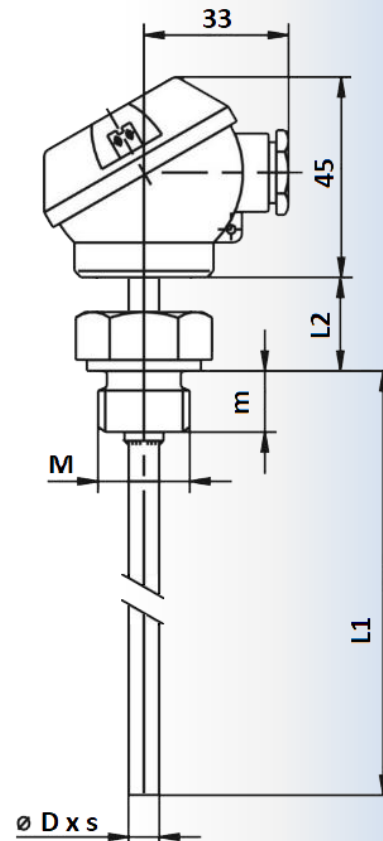
## TECHNICAL SPECIFICATIONS

<b>Description</b>	<b>TM-3 temperature sensor</b>
Sensor	RTD (resistance) or thermocouple
Class	A or B (for RTD) and class 1 for thermocouple
<b>Material</b>	
Thermowell	AISI304 (1.4301) or 316L (1.4404) stainless steel
Inside material	PVC, silicone, PTFE, GLASS fiber or metal braiding
<b>Connection</b>	
Circuit	2-wire or 3-wire circuit
<b>Certifications</b>	
	EN 61000-6-3:2007
	EN 61326-1:2006
	EN 61000-6-1:2007
	EN 61000-6-2:2005
Compatibility directives	EN 61326:2006
	EN 60751:2008
	EN 61515:1996
	EN 60584-2:1993
	EN 60584-3:2008
<b>Physical characteristics</b>	
Dimensions	100 ... 3000 mm
Weight	250 g
Protection type	IP65
<b>Climate conditions</b>	
Operating temperature	-30 to +85°C
Measurement range	-50 to +400°C

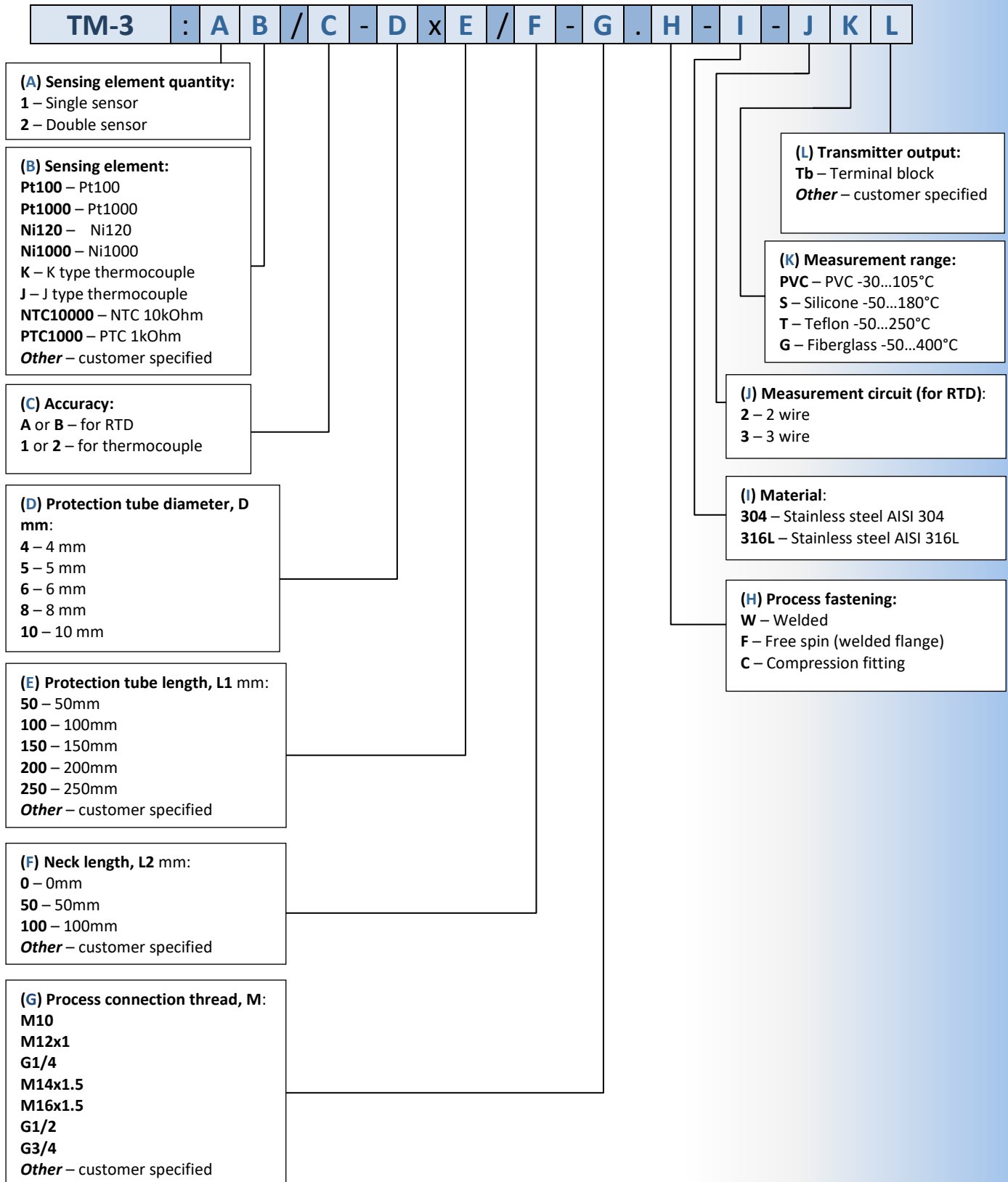
## AVAILABLE THREAD AND TUBE SIZE

Protection tube size, D x s	M	m, mm
4x0.35	M10	11
4x1	M12x1	
5x.035	G1/4	14
6x1	M14x1.5	
8x1.5	M16x1.5	15
10x1.5	G1/2	
12x2	M27x2	16
14x2	G3/4	
15x2		

\*D has to be smaller than M ( $D < M$ ).



# ORDERING CODE



e.g. **TM-3:1Pt100/B-5x150/50-G1/2.W-304-3GTb** Temperature sensor **TM-3** with one **Pt100** class B sensor, protection tube  $\varnothing$ 5x150mm, neck length 50mm, **G1/2** thread, **Welded**, Stainless steel AISI **304**, measuring circuit **3** wire, temperature range **-50...400°C**, output terminal block.