

Sensors:

PT100

PT1000

Ni120

Ni1000

PTC

NTC

K type

J type



FEATURES

- Thermowell are made from AISI304 (1.4301) or 316L (1.4404) stainless steel
- High quality, robust temperature sensor
- 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
- 868MHz, 4-20mA, 0-10V or direct sensor output
- Customer – specific thermowell lengths, diameter and process dimensions

TMC-1 Temperature sensor with 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 high-quality cable gland ensure daily water-proof IP65 class. 868MHz wireless version can transmit data up to 600m to RX-1 Temperature logger. Sensor can be used 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



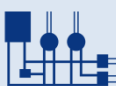
Marine



Laboratory



Heat substation metering



Machinery



HVAC



Solar power plant monitoring



Industrial monitoring



Commercial monitoring



Residential monitoring

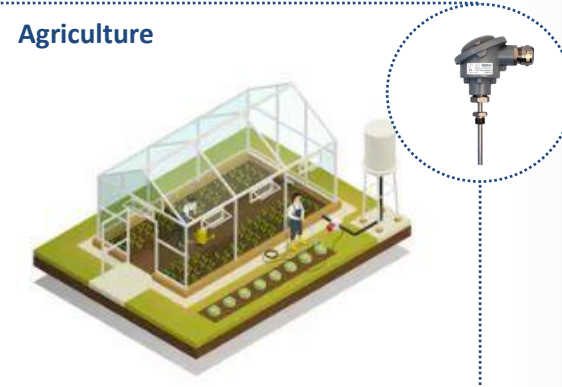


Environmental monitoring

Industry



Agriculture



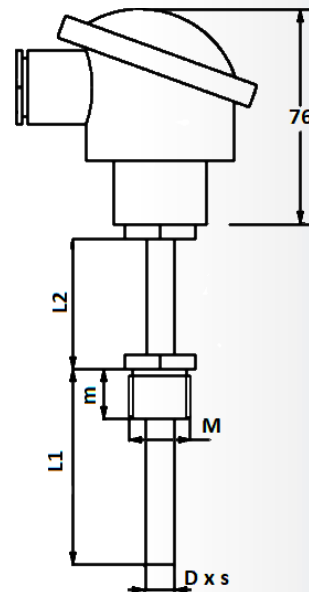
TECHNICAL SPECIFICATIONS

Description	TMC-1 temperature sensor
Sensor	RTD (resistance) or thermocouple
Class	A or B (for RTD) and class 1 for thermocouple
Material	
Thermowell	AISI304 (1.4301) or 316L (1.4404) stainless steel
Inside material	PVC, silicone, PTFE, GLASS fiber or metal braiding
Connection	
Circuit	2-wire or 3-wire circuit or Wireless 868Mhz
Certifications	
	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
Physical characteristics	
Dimensions	100 ... 3000 mm
Weight	300 g
Protection type	IP65
Climate conditions	
Operating temperature	-30 to +85°C
Measurement range	-50 to +400°C

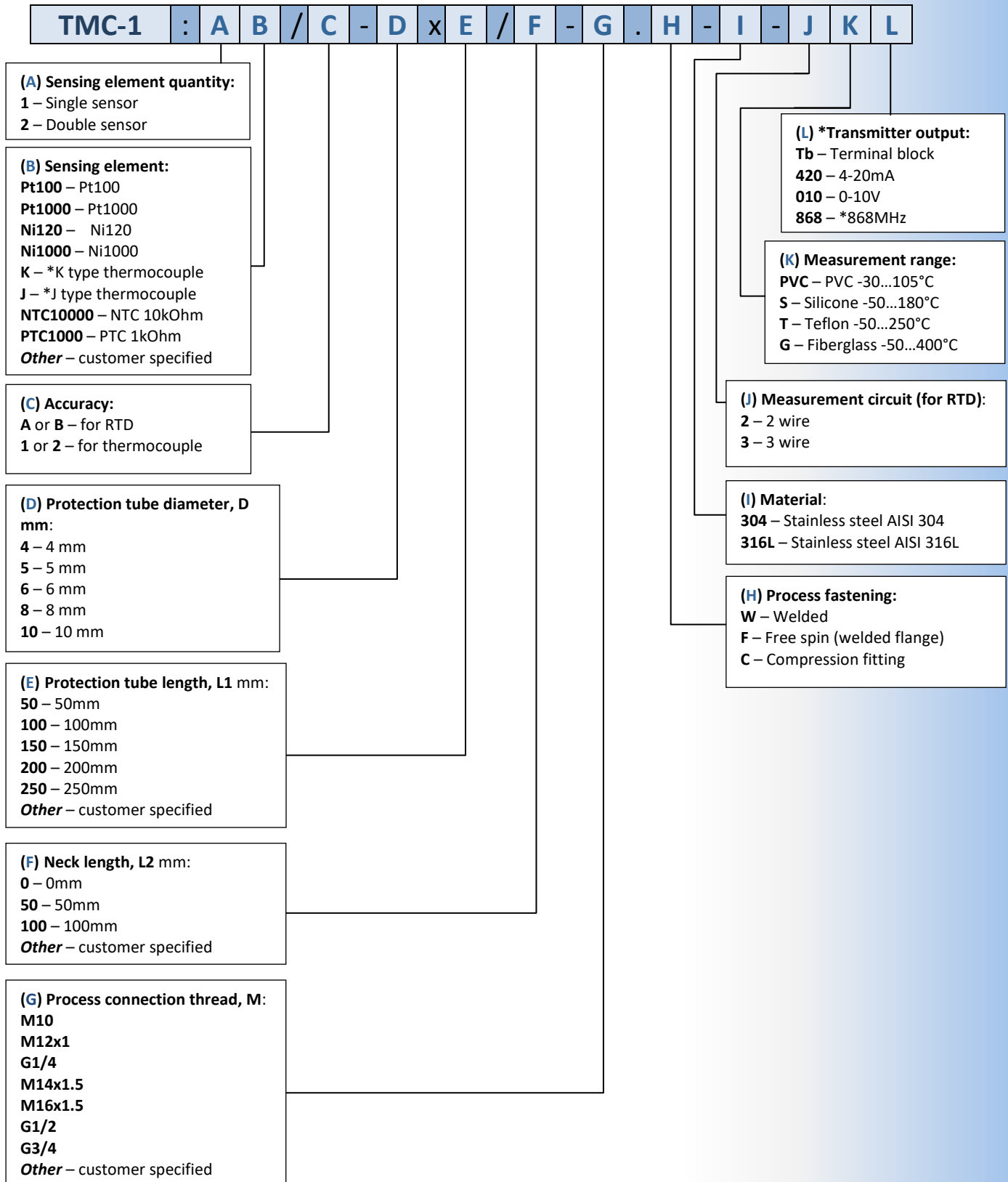
AVAILABLE THREAD AND TUBE SIZE

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. TMC-1:1Pt100/B-5x150/50-G1/2.W-304-3-50...400868 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 **868** MHz.

**868 MHz Wireless transmitter only for K and J type thermocouple.*