

EPIC® SENSORS T-MP / W-MP or T-MPT / W-MPT

Multi-point temperature sensor

Features

- temperature range -200...+1200 °C
- multi-point measurement
- Pt100 or thermocouple as sensing element
- AISI 316L or INCONEL 600 as standard delivery material, other materials on request
- available with a connection box
- Pt100 accuracy class A as standard delivery
- thermocouple accuracy class 1 as standard delivery
- MI cable structured sensor elements
- bendable
- vibration proof structure
- Flexible armoured conduit version available
- changeable measurement elements
- tailored solutions according to customer specific needs.

Typical applications

- energy and power plant technology
- process industry
- chemical industry
- machinery and vessel construction
- manufacturing industry.

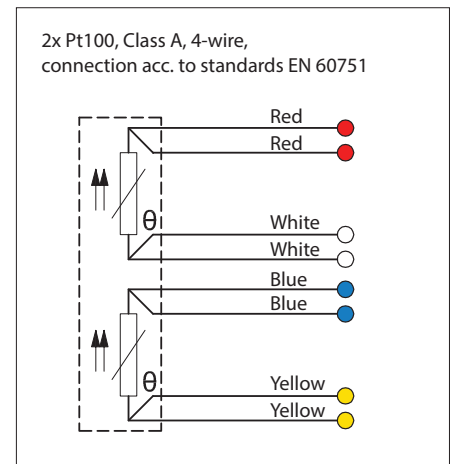
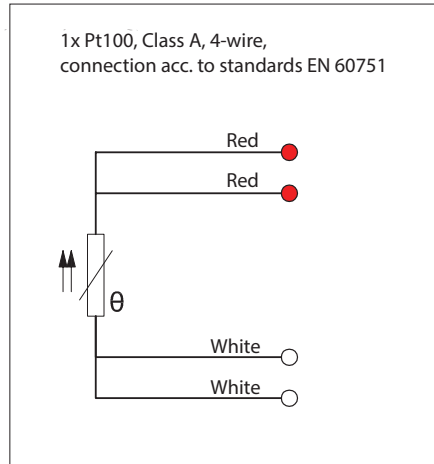
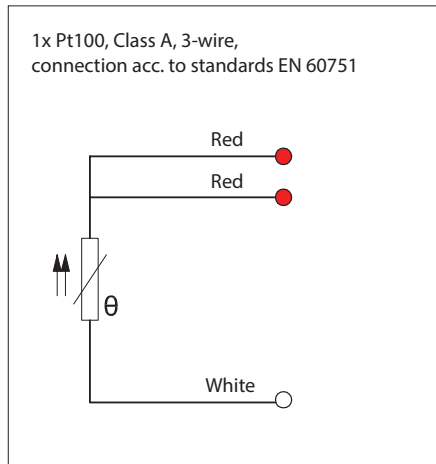


Technical data

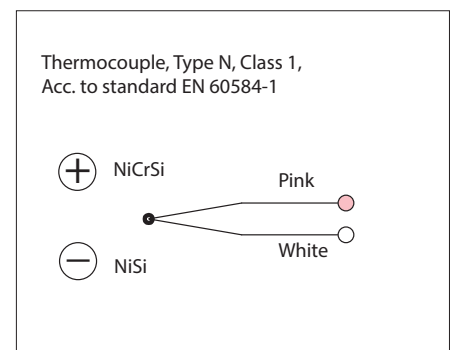
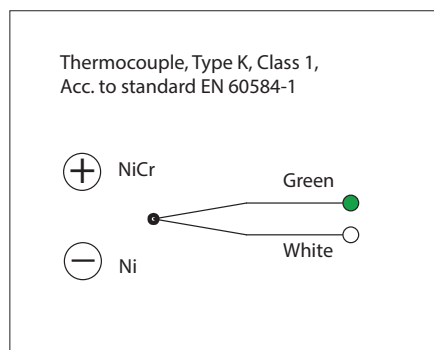
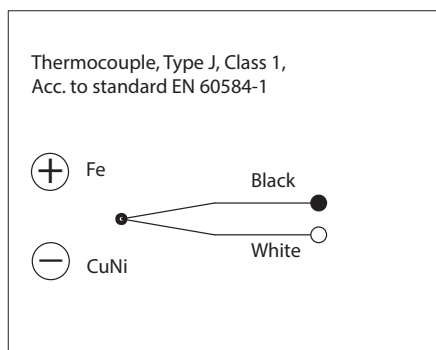
Materials	AISI 316L, maximum temperature +550 °C, temporarily +600 °C, INCONEL 600, max. temperature +1000 °C, temporarily +1200 °C, other materials on request
Flange material	AISI 316L, max. temperature +550 °C, temporarily +600 °C, other flange materials on request
Flange type	Flange type according to ANSI, EN 1092-1, other flange types on request
Diameter of sensor elements	3 or 6 mm, other diameters on request
Enclosure	Enclosure according to customer specific needs
Cable material	SIL = silicone, max. +180 °C FEP = Teflon®, max. +205 °C GGD = glass silk cable/metal braid jacket, max. +350 °C FDF = FEP wire insulation/braid shield/FEP jacket, max. +205 °C SDS = silicone wire insulation/braid shield/silicone jacket, only available as 2 wire cable, max. +180 °C TDT = Teflon® wire insulation/braid shield/ Teflon® jacket, max. +205 °C FDS = FEP wire insulation/braid shield/silicone jacket, max. +180 °C FS = FEP wire insulation/silicone jacket, max. +180 °C
Tolerances Pt100 (IEC 60751)	A tolerance $\pm 0.15 + 0.002 \times t$, operating temperature -100...+450 °C B tolerance $\pm 0.3 + 0.005 \times t$, operating temperature -196...+600 °C B 1/3 DIN, tolerance $\pm 1/3 \times (0.3 + 0.005 \times t)$, operating temperature -196...+600 °C B 1/10 DIN, tolerance $\pm 1/10 \times (0.3 + 0.005 \times t)$, operating temperature -196...+600 °C
Tolerances thermocouple (IEC 60584)	Type J tolerance class 1 = -40...375 °C ± 1.5 °C, 375...750 °C $\pm 0.004 \times t$ Type K and N tolerance class 1 = -40...375 °C ± 1.5 °C, 375...1000 °C $\pm 0.004 \times t$
Temperature range Pt100	-200...+550 °C, depending on materials
Temperature range thermocouple	-200...+1200 °C, depending on thermocouple type, neck pipe length and other materials
Approvals	METROLOGICAL PATTERN APPROVAL
Quality certificate	ISO 9001:2015 issued by DNV

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Pt100 connections



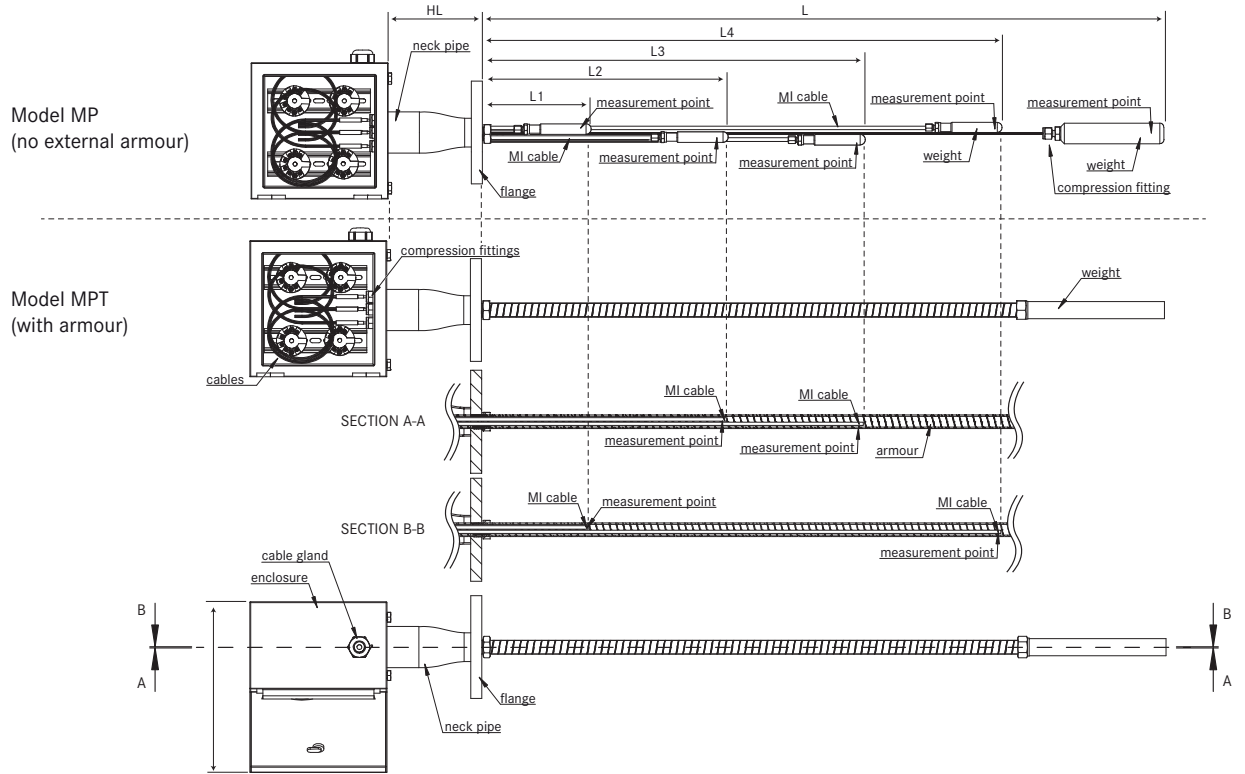
Thermoelement connections



EPIC® SENSORS T-MP / W-MP or T-MPT / W-MPT

Multi-point temperature sensor

Drawing



n times the lengths, according to the amount of measurement points

Product code key

Example code: 3XW – MPT – 3 / 2500/.../7500 – DN50/PN16 – 4 – A – TR – BOX – X

W	= Pt100 resistance thermometer
2xW	= 2 x Pt100 resistance thermometer
nxW	= n x Pt100 resistance thermometer
T	= thermocouple
2xT	= 2 x thermocouple
nxT	= n x thermocouple
MP	= multipoint sensor, no armour
MPT	= multipoint sensor, with armour
3, 6	= outer diameter of sensor elements (ØOD) [mm]
2500/...	= sensor element lengths [mm]
DN25/PN40	
DN40/PN40	
DN50/PN16	= flange size / flange thickness
DN50/PN40	(only typical stocked values listed)
DN80/PN16	(all flange sizes available)
DN80/PN40	(please contact our sales for more information)
4,3,2	= Pt 100 wire count
K,N,J	= thermocouple type
A,B	= Pt 100 accuracy class, (class A as standard delivery)
1,2,3	= thermocouple accuracy class, (class 1 as standard delivery)
TR	= wires for transmitter connection
CB	= with ceramic terminal block
empty	= no junction box
BOX	= supplied with junction box, (add info of supplier, type, etc. to the text line)
X	= additional details on the text line

