



Thermocouple Threaded nipple, head and protection tube

Model 8109100, built on order

Construction

Replaceable thermocouple probe in housing with outer protection tube, terminal head and threaded process connection.

Example of use

Measurements of temperature of gases and liquids in tubes and tanks.

Max. temp.

Probe: The maximum temperature is limited by the insertion probe or the protection tube of the housing depending of the selected combination.

Type	Max. temp.
K	1200 °C
N	1200 °C
J	760 °C
T	370 °C

Protection tube	Max. temp.
1.4404 alt 1.4435	800 °C
Inconel 600	1050 °C
Kanthal	1200 °C

Working temperature, environment and diameter of probe influence lifetime of the sensor.

Measurement insert, replaceable (model 8104001)

Class: 1 (IEC 60584-2)

Measuring junction: Grounded or isolated

Diameter: \varnothing 3 mm, \varnothing 4,5 mm, \varnothing 6 mm

Length: L1 as required

Typ	Metal sheath
K	Inconel 600
N	Inconel 600
J	Acid-proof stainless steel
T	Acid-proof stainless steel

Housing	
Material	$\varnothing d$ diameter, mm
Kanthal	15.0 19.0 22.0
1.4893 (253 MA)	17.2 21.3
353 MA	21.3
1.4749 (4C54)	17.2 21.3
2.4816 (Inconel 600)	8.0 10.0 12.7 18.0 21.3
Acid-proof stainless steel	8.0...21.3

Process connection	
Thread G	Hex
G 1/2"	27
G 3/4"	32
G 1"	41
M18 x 1,5	24
1/2" NPT	22

Terminal head

Fixedly mounted head.

Cable gland M20x1,5.

Type	Lid	Material
DNAG	Screw-on lid	Grey lacquered aluminium
Form B	Lid with screws	Grey lacquered aluminium
DAN	Hinge lid	Grey lacquered aluminium
BBK	Screw-on lid	Glass armoured Polyamid
SEG	Screw-on lid	Stainless steel

Connection options	
Stripped wires	
Transmitter	
Terminal block	

Certificate

Measured value: Test certificate EN10204 3.1

For advice, please contact Pentronic.