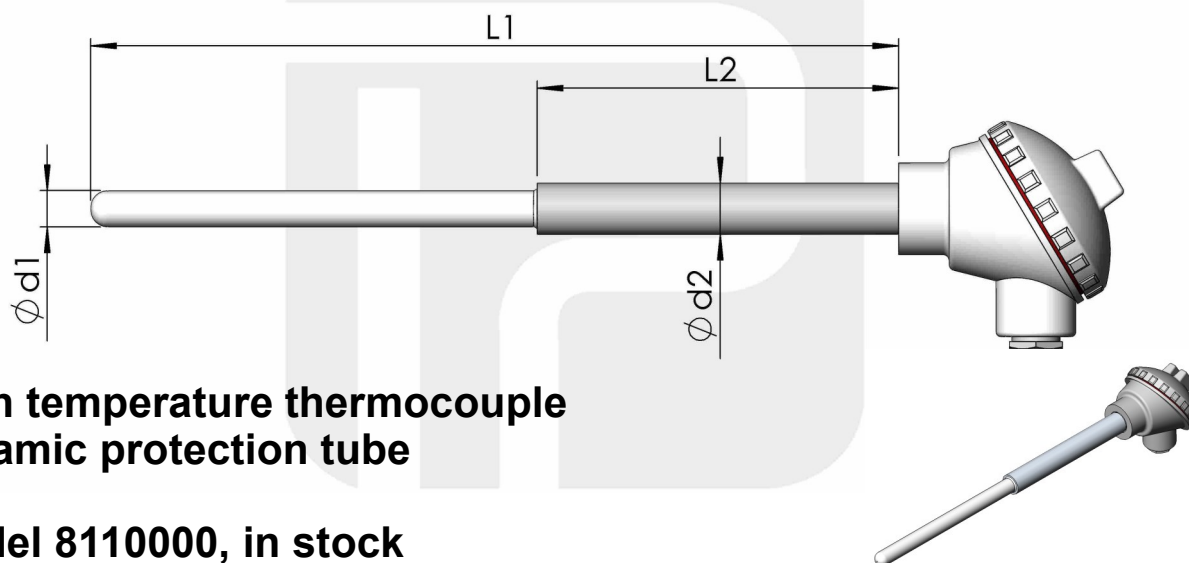




High temperature thermocouple Ceramic protection tube

Model 8110000, in stock

Design

Housing with highly refined (C799) protection tube with neck of stainless steel. Replaceable insertion probe.

Example of use

Temperature measurements in combustion boilers and heat treatment furnaces.

Max temp.

Insertion probe: 1600 °C

Insertion probe (model 8104000)

IEC 60584-2 class 1 thermocouple type S with diameter 0.5 mm platinum wires mounted in highly refined (C799) ceramic insulator bore rod.

Housing

Material protective tube: C799

Material neck: stainless steel 1.4435

Process connection

The neck can be positioned e.g. with flange or compression fitting. See table "Accessories".

Terminal head

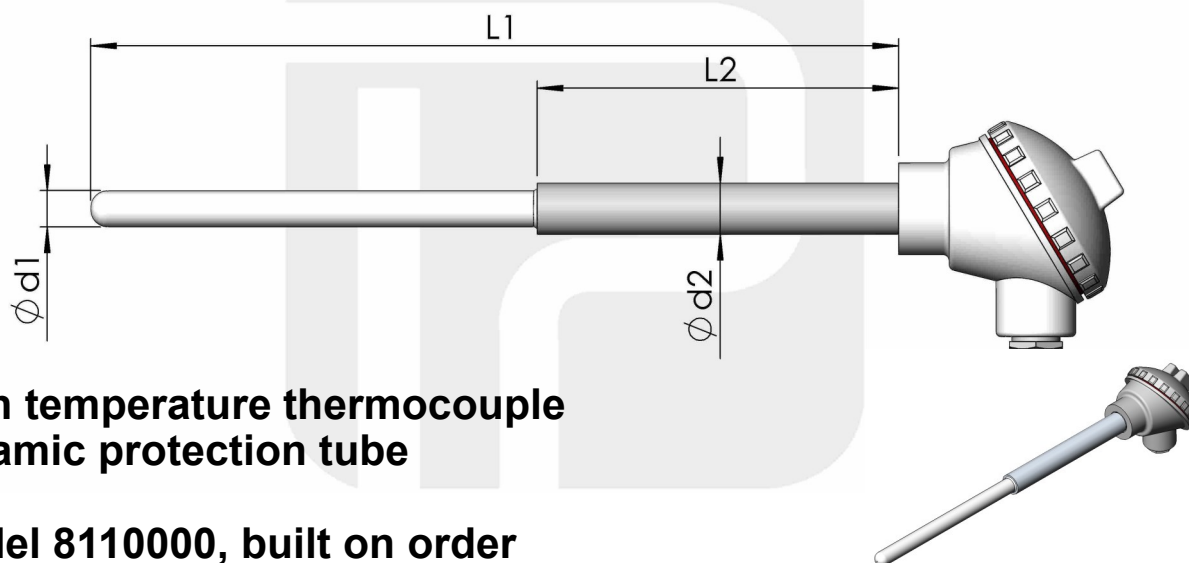
Non-adjustable head with screw-on lid
Cable gland M20x1.5

Signal connection

See table "Dimensions and part numbers"

Accessories		
Part no.	Model	Suits neck Ød2 (mm)
23-04030	UZ 21-15	15
23-04040	Mounting flange UZ 21-22	21.3
23-04055	Compression fitting UG 2-15-G1/2" Graphite	15
23-04050	Compression fitting UG 2-22-G1" Graphite	21.3

Dimensions and part numbers						
Part no. Housing withinsertion probe	L1 (mm)	L2 (mm)	Ød1 (mm)	Ød2 (mm)	Signal connection	Part no. Insertion probe
8110001-243	500	150	15	21,3	Stripped wires	8104001-213
8110001-244	500	150	15	21,3	Transmitter	8104001-253
8110001-242	500	150	15	21,3	Terminal block	8104001-254
8110001-228	500	200	10	15	Stripped wires	8104001-213
8110001-229	500	200	10	15	Transmitter	8104001-253
8110001-263	500	200	10	15	Terminal block	8104001-254
8110001-184	700	300	15	21,3	Stripped wires	8104001-182
8110001-234	700	300	15	21,3	Transmitter	8104001-255
8110001-193	700	300	15	21,3	Terminal block	8104001-256
8110001-197	800	400	15	21,3	Stripped wires	8104001-183
8110001-226	800	400	15	21,3	Transmitter	8104001-257
8110001-162	800	400	15	21,3	Terminal block	8104001-258
8110001-232	900	400	15	21,3	Stripped wires	8104001-184
8110001-223	900	400	15	21,3	Transmitter	8104001-259
8110001-198	900	400	15	21,3	Terminal block	8104001-260
8110001-233	1400	800	15	21,3	Stripped wires	8104001-263
8110001-236	1400	800	15	21,3	Transmitter	8104001-261
8110001-255	1400	800	15	21,3	Terminal block	8104001-262



High temperature thermocouple Ceramic protection tube

Model 8110000, built on order

Design

Housing with highly refined (C799) protection tube with neck of stainless steel. Replaceable insertion probe.

Example of use

Temperature measurements in combustion boilers and heat treatment furnaces.

Max temp.

Insertion probe: see table below

Insertion probe (model 8104000)

IEC 60584-2 class 1

Type	Max temp
K Inconel 600	1150 °C
N Inconel 600	1150 °C
S/R Ceramix C799	1600 °C
B Ceramix C799	1600 °C

Diameter: 6 or 5,5 mm

Length = L1+20 mm

Terminal head

Cable gland M20x1.5

Grey lacquered aluminium

Part no.	Type	Lid
23-00212	Form B DNAG	Screw-on lid
23-00200	Form B BA	Lid with fastening screws
23-00202	Form B DAN	Hinge lid
23-00217	Form B DANDW	Hinge lid 2 cable outlets
23-00205	Form B DANW	Hinge lid High model
23-00208	Form B DANAW	Hinge lid LED-display
23-00214	Form A AA	Lid with fastening screws, 2 cable outlets

Housing

Ceramic protection tube for 5,5-6,0 mm insertion probe.

Material protection probe: ceramic C799 highly refined

Material neck: stainless steel 1.4435 or Kanthal AF

Diameters: d1 = 10, 15 or 24 mm

d2 = 15, 21,3, 22 or 32 mm

Process connection

The neck can be positioned e.g. with flange or compression fitting. See table "Accessories".

Connection options

Stripped wires
Transmitter
Terminal block

Accessories

Part no.	Model	Suits neck Ød2 (mm)
23-04030	Mounting flange UZ 21-15	15
23-04040	Mounting flange UZ 21-22	21,3 / 22
23-04055	Compression fitting UG 2-15-G1/2" Graphite	15
23-04050	Compression fitting UG 2-22-G1" Graphite	21,3 / 22

Certificate

Only for type K and N, metal sheathed insert.

Measured value: Test certificate EN10204 3.1

Note

Working temperature, environment and diameter of probe influence lifetime of the sensor. Please contact Pentronic for a suitable design or other dimensions and materials.