

11

# THERMOCOUPLES FOR MEASURING THE MOLTEN PLASTIC

Thermocouples intended to measure the temperature of molten plastic. They are designed for high pressure applications, eg. in injection molding machine. Sensors are available at several standard lengths. Measuring tip sticks out 5-0 mm (it is flat). Sensors have the junction galvanically insulated from the thermowell. Supplied complete with the compensating standard plug with round pins (grounded junction on request).

- thermocouple type J or K – class 2 (to PN-EN 60584) <sup>3)</sup>
- There are the following lengths available:  
76 mm (3"), 102 mm (4"), 152 mm (6"), 229 mm (9"),
- sheath material: SS316,
- screw with thread 1/2" – 20UNF (thread length L<sub>g</sub>=55mm)
- measuring tip, diameter 3 mm,
- measuring tip length: 5 mm or 0 mm
- connection: standard compensated connector
- insulated hot junction or grounded to sheath
- operating temperature: 0 ÷ 600 °C (on the tip) <sup>2)</sup>

1) other construction on request; 2) Calibration Certificate charged separately; 3) class 1 on request



11	sensor type	length L [mm]	thread length	thread type	measuring tip length	hot junction type
Give sensor type, table 1						
Give length L [mm]						
Give thread type (standard: 55 mm)						
Give thread type ( standard: 1/2" – 20UNF)						
Give measuring tip length: 5 mm or 0 mm						
Give junction type, table 2						

## TAB. ORDERING CODE:

11	K	152	55	1/2"20UNF	5	I1
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### 11 – K – 152 – 55 – 1/2"20UNF – 5 – 1

Temperature sensor model 11, thermocouple for measuring the temperature of molten plastic, type K (NiCr-NiAl), length 152 mm, thread length 55 mm, thread dimension 1/2"10UNF. , exposed measuring 5 mm long tip. Insulated hot junction.

## TAB. 1 TEMPERATURE RANGE \*)

SENSOR TYPE	THERMO-ELECTRODES TYPE	OPERATING TEMPERATURE RANGE [°C]
<b>J</b>	Fe - CuNi	0 ÷ 600
<b>K</b>	NiCr - NiAl	0 ÷ 600

\*) Tolerance to PN-EN 60584-1, table I, page 63

## TAB. 2 RODZAJE SPOIN POMIAROWYCH

HOT JUNCTION CODE	DESCRIPTION	DRAWING
<b>I1</b>	Simplex Insulated Junction	
<b>Z1</b>	Duplex grounded junction	