

Plate thermocouple for fire resistance furnaces (EN 1363-1 or ISO 834)

Model 5928060

Design

Temperature of a metal plate is measured by a thermocouple according to EN 1363-1/ISO 834.

A protective tube (not included) could be passed over the thermocouple with cable to protect it and keep it in place when mounted in a furnace.

A fitting welded to the plate will fix the sensor plate to the tube in the desired position by locking screws.

Example of use

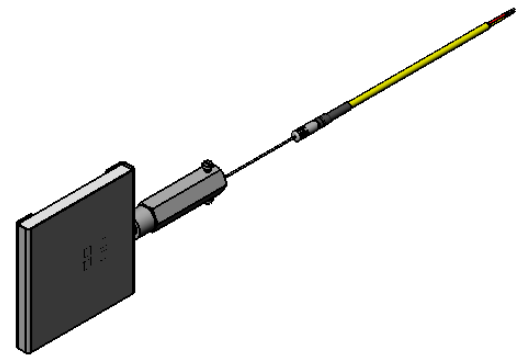
Temperature control of fire resistance furnaces according to EN 1363-1 or ISO 834 specifications. Measurements of adiabatic surface temperature for estimating thermal exposure in fire experiments.

Max. temperature

Probe:	1200 °C
Transition junction:	100°C
Extension cable:	200°C

Dimensions and article numbers

Article No.	L1 mm	L2 mm
5928060-001	3000	500
5928060-002	2000	500
5928060-003	1500	500
5928060-004	1000	500
5928060-005	2500	500
5928060-006	1500	1500



Probe

Metal-sheathed mineral-oxide insulated cable:
Stainless steel type Inconel 600.
Class: 1 (IEC 60584-2)
Type: K
Measuring junction: Insulated. The junction is centered on the inconell plate.

Insulation

To prevent the plate losing heat to the test specimen it is insulated by Carbowool, 200-300 kg/m³.

Signal connection

Silicone insulated cable, TEX/SITW-20F AWG 20 (0,5 mm²), with stripped wires.

Colour code according to ANSI MC 96.1.

Certificate

Measuring value: Certificate EN10204 3.1b