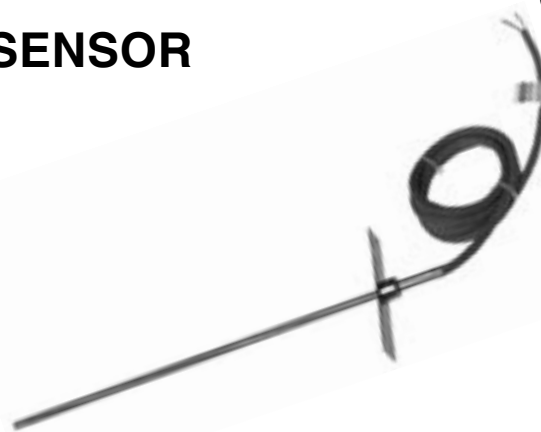


FLUE GASES TEMPERATURE SENSOR

STF Eng.

- Pt temperature sensing element
- Measurement range:
– 0... 500 °C
- installation:
– in flue



1. APPLICATION

Designed for measuring the temperature of flue gases in heat generators.
The sensing element is housed in a protective sheath and connected directly to a bi-polar cable for the power supply.
The sheath is mounted directly inside the flue and secured by means of the mounting attachment supplied.

2. MODEL AVAILABLE

Code	Description	Setting range	Sensing element	Max length cables of		
				1 mm ²	1.5 mm ²	2.5 mm ²
STF 001	Flue gases temperature sensor	0... 500 °C	Pt 1kΩ	70 m	100 m	200 m

3. TECHNICAL DATA

Temperature sensing element:

Type	see table in 2 above	Installation	directly on flue
Temperature constant	30 s	Construction standards	Italian Electrotech. Committee (CEI)
Range	see table in 2 above	Materials:	
Protection	IP 54	Sheath	stainless steel
Dimensions cable	2 x 0.5 mm ² X 1.5 m	Mounting plate	stainless steel
		Weight	170 g

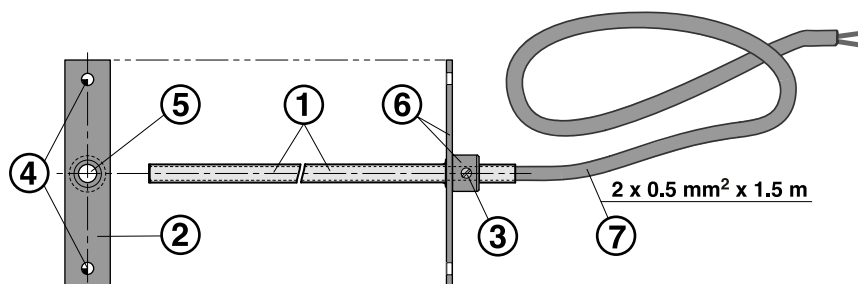
4. INSTALLATION

- STF must be installed directly inside the flue.
- Make a hole in the flue at the point where the sensor is to be installed (**hole 7mm ø max.**).
 - Attach the mounting plate to the flue securing it with the two self-threading screws supplied (**ø 4**).
 - Insert the sensor protective sheath in the flue through the hole in the mounting plate and secure it with the screw supplied at the best depth for measuring the temperature (**near the centre of the flue**)
 - Carry out the electric wiring in strict accordance with the diagram and with the safety regulations in force, using cables of the appropriate diameter (**NOT telephone or similar cables**); see table in 2 above.

Warning:

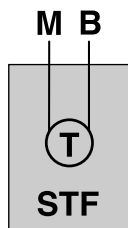
- **To lengthen the sensor cable, if necessary: follow the instructions given in the table in 2 above; these must be strictly observed so as not to compromise the sensing operation.**
- **To connect several sensors with a single multicore cable: ALL the sensors must be exclusively of COSTER manufacture.**
- **For correct data measurement the installation instructions must be followed to the letter.**

5. DESCRIPTION

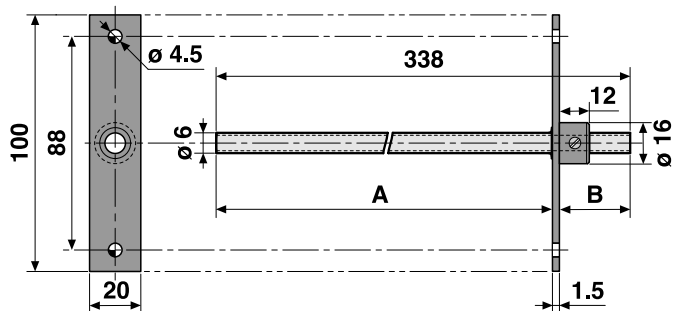


- 1 – Protective sheath for sensing element
- 2 – Mounting plate
- 3 – Sheath for securing screw
- 4 – Holes for securing mounting plate
- 5 – Hole for insertion of protective sheath
- 6 – Mounting plate with sheath securing screw
- 7 – Connecting cable

6. WIRING DIAGRAM

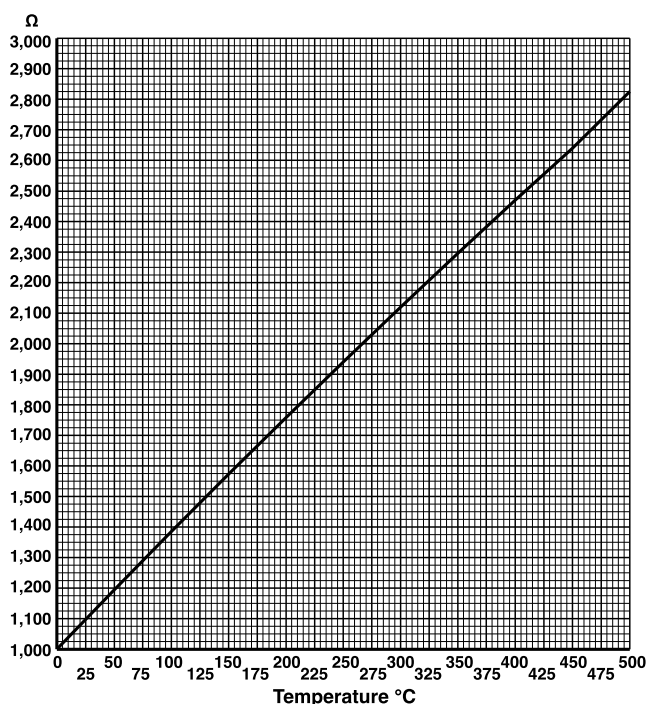


7. OVERALL DIMENSIONS



NB: A/B = Variable distances: depend on how far sensing element sheath inserted inside flue.

8. PT 1 KΩ SENSING ELEMENTS



Amendments to data sheet

from version	to version	Page	Section	Details of amendments
22.04.05 MC	06.02.06 MC	1	General	Amended: measurement range
		1	2. Model Available	Update table



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