

# All-purpose temperature sensors



## ETF: PT-1000 sensors

**ETF is a range of temperature sensors designed for use in heating, ventilation and cooling systems.**

All major parameters have been taken into account in the design of our ETF sensors: measured temperature, mechanical load, corrosion, erosion and required response time.

All our ETF sensors meet the requirements contained in the Machinery directive 89/392/EEC.













**PT-1000 Sensor characteristics:**

- Industrial use
- Precision in different grades and classes.  
Resistance at 0° is 1000 Ohm
- Sensor leads can be extended/shortened, when cable resistance is taken into account

Our wide range of temperature sensors counts sensors as diverse as:

- Universal sensors
- Ventilation duct sensors
- Non-aggressive liquids and gasses sensors
- Sensors for pipe surfaces
- Sensors for wet environments
- Indoor room sensors

The requirements to be met must be carefully considered, in order to pick the sensor that fits your needs. Please consult the chart at page 2 for a full description of the different sensors and their applications.

Sensor	Type	Dimensions	Sensor element (PT 1000 - 1000Ω@0°C)	Material	Applications
	ETF-198B-5	Ø5 mm, L20 mm 5 m cable IP65	PT 1000 0°C = 1000 Ω Range -40°C-+150°C	TPE Silicone & Halogen free	Universal sensor Outdoors
	ETF-598B-5	Ø6 mm, L32 mm 5 m cable IP68	PT 1000 0°C = 1000 Ω Range -40°C-+150°C	Stainless steel TPE Silicone & Halogen free	Universal sensor Outdoors
	ETF-598B-5A	Ø7 mm, L53 mm 5 m cable IP67	PT 1000 0°C = 1000 Ω Range -40°C-+150°C	Stainless steel TPE Silicone & Halogen free	Universal sensor Outdoors
	ETF-1098L1-0.5	Ø12 x 100 mm 0.5 m cable Flange	PT 1000 0°C = 1000 Ω Range -40°C-+85°C	Polycarbonate	Ventilation duct sensor
	ETF-1098L1-4	Ø12 x 100 mm 4.0 m cable Flange	PT 1000 0°C = 1000 Ω Range -40°C-+85°C	Polycarbonate	Ventilation duct sensor
	ETF-1198-SR	Ø3 x 250 mm ¼" thread 10 m cable	PT 1000 0°C = 1000 Ω Range -50°C-+165°C	Galvanized brass	Non-aggressive liquids and gases
	ETF-1198-SR ½"	Ø3 x 250 mm ½" thread 10 m cable	PT 1000 0°C = 1000 Ω Range -50°C-+165°C	Galvanized brass	Non-aggressive liquids and gases
	ETF-1698	30 x 60 x 30 mm, IP54 Max. pipe diam. 50 mm Incl. clamp	PT 1000 0°C = 1000 Ω Range -50°C-+70°C	Polycarbonate Stainless AISI 316	Pipe surfaces
	ETF-798	45 x 86 x 35 mm IP54	PT 1000 0°C = 1000 Ω Range -20°C-+70°C	ABS plastic Melamine	Wet environments Outdoors
	ETF-1798	55 x 52 x 27 mm IP54	PT 1000 0°C = 1000 Ω Range -40°C-+70°C	Polycarbonate	Wet environments Outdoors Non-aggressive
	ETF-998-H	80 x 80 x 16 mm IP20	PT 1000 0°C = 1000 Ω Range -20°C-+70°C	Bayblend noryl	Room sensor Dry rooms Indoors
	ETFL-2	Ø8 mm, L100 mm ¼" thread		Galvanized brass	Sensor pocket Non-aggressive

-20°C = 921.6Ω	11°C = 1042.9Ω	16°C = 1062.3Ω	21°C = 1081.8Ω	26°C = 1101.2Ω	35°C = 1136.1Ω	60°C = 1232.4Ω
-10°C = 960.9Ω	12°C = 1046.8Ω	17°C = 1066.2Ω	22°C = 1085.7Ω	27°C = 1105.1Ω	45°C = 1174.7Ω	70°C = 1270.7Ω
0°C = 1000.0Ω	13°C = 1050.7Ω	18°C = 1070.1Ω	23°C = 1089.6Ω	28°C = 1109.0Ω	50°C = 1194.0Ω	80°C = 1308.9Ω
5°C = 1019.5Ω	14°C = 1054.6Ω	19°C = 1074.0Ω	24°C = 1093.5Ω	29°C = 1112.8Ω	55°C = 1213.2Ω	90°C = 1347.0Ω
10°C = 1039.0Ω	15°C = 1058.5Ω	20°C = 1077.9Ω	25°C = 1097.3Ω	30°C = 1116.7Ω	60°C = 1232.4Ω	100°C = 1385.0Ω