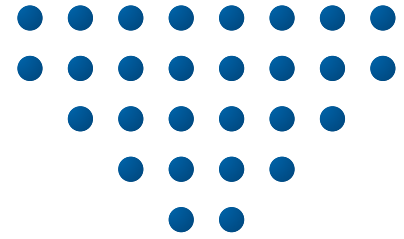




ETF PT 100



HVAC CONTROLS AND POWER

All-purpose temperature sensors

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

No one temperature sensor satisfactorily meets all needs. The requirements to be met must therefore be carefully considered.

Is temperature to be measured in a swimming pool complex, for example, or in an aggressive liquid or flue gas?

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

APPLICATIONS

The ETF range consists of a variety of temperature sensors, each specially designed and engineered to suit its own particular purpose:

ETF-197 is suitable for measuring floor temperature.

ETF-397 is suitable for aggressive liquids and gases.

ETF-497 is suitable for liquids and gases.

ETF-597 is a universal sensor suitable for machine parts.

ETF-697 is a surface sensor for pipes and machine parts.

ETF-797 is suitable for measuring outdoor temperature.

ETF-897 is a stainless steel sensor suitable for liquids.

ETF-997-H is a room temperature sensor in OJ design.

ETF-1197 is a multi-purpose sensor with mounting flange.

ETF-1397 is an industrial sensor suitable for liquids, IP54.





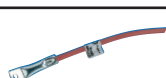










ETF-1697 is a surface sensor for piping systems.

ETF-1797 is an outdoor temperature sensor.

ETF-2797 is suitable for outdoor or wet environments, IP54.

ETF-2997 is an industrial sensor for aggressive media.

ETF sensors are designed to provide our customers with an advantageous combination of high quality, accurate measurement and low life cycle costs.

Sensor	Type	Dimensions	Sensor element (PT 100 - 100Ω@0°C)	Material	Applications
	ETF-197	Ø6.5 mm, L30 mm 2.5 m cable	PT 100 0°C = 100 Ω Range -50°C-+125°C	Polyolefin Ceramic Stainless AISI 316	Universal sensor e.g. floor sensor
	ETF-397	Ø6.5 mm, L100 mm ¼" pipe, 2.5 m cable Max. pressure 6 atm	PT 100 0°C = 100 Ω Range -50°C-+165°C	Stainless AISI 316	Aggressive liquids
	ETF-497	Ø6.5 mm, L100 mm ¼" pipe, 2.5 m cable Max. pressure 6 atm	PT 100 0°C = 100 Ω Range -50°C-+165°C	Brass	Non-aggressive liquids and media
	ETF-597	Ø6.5 mm, L50 mm 2.5 m cable Max. pressure 0.5 atm	PT 100 0°C = 100 Ω Range -50°C-+165°C	Brass	Universal sensor Machine parts
	ETF-697	8 x 12 mm Hole Ø3.5 mm 2.5 m cable	PT 100 0°C = 100 Ω Range -50°C-+165°C	Copper	Machine parts Surfaces
	ETF-797	86 x 45 x 35 mm IP54	PT 100 0°C = 100 Ω Range -20°C-+70°C	ABS plastic Melamine	Wet environments Outdoors
	ETF-897	Ø6.5 mm, L200 mm ¼" pipe, 2.5 m cable Max. pressure 6 atm	PT 100 0°C = 100 Ω Range -50°C-+165°C	Brass Stainless AISI 316	Non-aggressive liquids and media
	ETF-997-H	80 x 80 x 16 mm IP20	PT 100 0°C = 100 Ω Range -20°C-+70°C	Bayblend noryl	Room sensor Dry rooms Indoors
	ETF-1197	Ø6.5 x 200 mm Flange 2.5 m cable	PT 100 0°C = 100 Ω Range -30°C-+80°C	Brass	Non-aggressive liquids and gases
	ETF-1397	Ø8 mm, L200 mm, IP54 DIN type B head Max. pressure 6 atm	PT 100 0°C = 100 Ω Range -50°C-+500°C	Stainless AISI 316	Very high temperatures, machine parts, industry
	ETF-1697	60 x 30 x 30 mm Max. pipe diam. 50 mm, IP54 Incl. clamp	PT 100 0°C = 100 Ω Range -50°C-+70°C	Polycarbonate Stainless AISI 316	Pipe surfaces
	ETF-1797	55 x 52 x 27 mm IP54	PT 100 0°C = 100 Ω Range -40°C-+70°C	Polycarbonate	Wet environments Outdoors Non-aggressive
	ETF-2797	Ø6.5 mm, L20 mm 45x50x31mm PG9, IP54	PT 100 0°C = 100 Ω Range -40°C-+70°C	Aluminium, Brass	Wet environments Outdoors
	ETF-2997	Ø6 mm, L100 mm 2.5 m cable	PT 100 0°C = 100 Ω Range -50°C-+165°C	Stainless AISI 316	Very high temperatures
	ETFL-2	Ø7 mm L100 mm ¼" thread		Brass	Sensor pocket Non-aggressive

PT 100 resistance table

-20°C = 92.2Ω	11°C = 104.3Ω	16°C = 106.2Ω	21°C = 108.2Ω	26°C = 110.1Ω	35°C = 113.6Ω	60°C = 123.2Ω
-10°C = 96.1Ω	12°C = 104.7Ω	17°C = 106.6Ω	22°C = 108.6Ω	27°C = 110.5Ω	40°C = 115.5Ω	70°C = 127.1Ω
0°C = 100Ω	13°C = 105.1Ω	18°C = 107.0Ω	23°C = 108.9Ω	28°C = 110.9Ω	45°C = 117.5Ω	80°C = 130.9Ω
5°C = 101.9Ω	14°C = 105.5Ω	19°C = 107.4Ω	24°C = 109.3Ω	29°C = 111.3Ω	50°C = 119.4Ω	90°C = 134.7Ω
10°C = 103.9Ω	15°C = 105.8Ω	20°C = 107.8Ω	25°C = 109.7Ω	30°C = 111.7Ω	55°C = 121.3Ω	100°C = 138.5Ω

CE MARKING

ETF sensors meet the requirements contained in the following directive:

MACHINERY DIRECTIVE
89/392/EEC