

Sensor lead

ETF sensors are supplied with 2,5m of lead as standard, but other lengths can be supplied upon request.

Sensor temp.	Lead type	Insulation	Max.temp.
Up to 70°C	2x0,5mm Cu	PVC	80°C
Up to 200°C	2x0,5mm Cu	Silicone rubber	200°C
Up to 280°C	2x0,5mm Ni	Fiberglass	300°C
Up to 350°C	2x0,5mm Ni	Steelbraiding	385°C

Briefly 250°C permissible

Resistance sensors

NTC and PTC sensors offer a high resistance compared to the lead, which therefore may be extended up to several hundred meters. The sensor lead should be kept away from high power cables and other electromagnetic fields, or the use of screened cable is recommended. Pt100, Pt1000 and Ni-100 sensors should have the lowest possible resistance, and three and four core cables can be used.

Thermoelements

These are furnished with heat resistant cable, which may be extended by means of "compensation cable" if need be. Use of other cable types will lead to measuring errors.

Ordering code

The field of application and the type of thermostat determine the type of temperature sensor. The type designation of OJ thermostats comprises a sensor code. The two central digits of the last four state the code, e.g. thermostat type ETT-49-**1441**. The **bold-faced** digits **-44-** state the code.

The type designation of ETF sensors partly states the mechanical type and partly the type of thermostat. The thermostat code must correspond to the thermostat sensor code:

Sensors with 3 digits: Digit 1 = mechanical type
Digits 2 + 3 = type of thermostat.

Sensors with 4 digits: Digits 1 + 2 = mechanical type
Digits 3 + 4 = type of thermostat or element.

Example: A sensor for a ventilation plant which is to be regulated by means of the abovementioned thermostat type ETT-49-**1441**, should be a sensor type ETF-**144** (ETF-133/44/55).

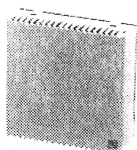
N.B.

Upon request, several types with different temperature ranges may be furnished.

Product sheets of special types are forwarded upon request.



ETF - 7..



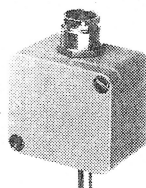
ETF - 9..



ETF - 16..



ETF - 17..



ETF - 27..

Temp. range	Sensor type	Designation
-------------	-------------	-------------

Sensor Floor Heating

Frost protection, tubular receptacle...



-20/+280°C	NTC	ETF-112
-40/+120°C	NTC	ETF-122
-20/+70°C	NTC	ETF-133/44/55
-50/+70°C	NTC	ETF-177/88
-40/+125°C	PTC	ETF-195
-20/+70°C	NTC	ETF-199

Material: Polyolefin, ETF-112 ceramics and stainless steel.
Max. pressure 0,5 atm. Dimensions: Ø 6,5mm, L30mm.

Sensor Ventilation

Frost and fire alarm...



-20/+200°C	NTC	ETF-211
-40/+120°C	NTC	ETF-222
-20/+70°C	NTC	ETF-233/44/55
-50/+70°C	NTC	ETF-288
-40/+125°C	PTC	ETF-295
-50/+165°C	Pt100	ETF-297

Material: Brass. Max. pressure 0,5 atm.
Dimensions: Ø6,5mm, L100mm.

Sensor Aggressive liquids

Foodstuffs...



-20/+200°C	NTC	ETF-311
-40/+120°C	NTC	ETF-322
-20/+70°C	NTC	ETF-333/44/55
-50/+70°C	NTC	ETF-388
-40/+125°C	PTC	ETF-395
-50/+165°C	Pt100	ETF-397

Material: Stainless steel AISI 316. Max. pressure 6 atm.
Dimensions: Ø6,5mm, L95mm, 1/4" pipe thread.

Sensor Non-aggressive liquids



-20/+200°C	NTC	ETF-411
-40/+120°C	NTC	ETF-422
-20/+70°C	NTC	ETF-433/44/55
-40/+125°C	PTC	ETF-495
-50/+165°C	Pt100	ETF-497
-50/+165°C	Pt1000	ETF-498

Material: Brass. Max. pressure 6 atm.
Dimensions: Ø6,5mm, L100mm, 1/4" pipe thread.

Sensor Machine parts



-20/+200°C	NTC	ETF-511
-40/+120°C	NTC	ETF-522
-20/+70°C	NTC	ETF-533/44/55
-40/+125°C	PTC	ETF-595
-50/+165°C	Pt100	ETF-597
-50/+165°C	Pt1000	ETF-598

Material: Brass. Max. pressure 0,5 atm.
Dimensions: Ø6,5mm, L50mm.

Sensor Plant

Pipes and machine parts...



-20/+200°C	NTC	ETF-611
-40/+120°C	NTC	ETF-622
-20/+70°C	NTC	ETF-633/44/55
0/+400°C	Fe-CuNi	ETF-686
-50/+70°C	NTC	ETF-688
-40/+125°C	PTC	ETF-695
-50/+165°C	Pt100	ETF-697
-50/+350°C	Pt100	ETFH-697

Material: Copper. Dimensions: 8x12mm, hole Ø3,5mm.