

THERMASGARD® ETF 1 including brass immersion sleeve, nickel-plated
THERMASGARD® ETF 2 including stainless steel immersion sleeve



S+S REGELTECHNIK

Screw-in sensors/immersion temperature sensors
 with passive output

APPLICATION:

Screw-in temperature sensors are electric contact thermometers, which are installed in piping systems and vessels for measuring temperatures in liquids and gases. Screw-in temperature sensor with enclosure made of impact-resistant plastic and straight protective tube. For aggressive media, stainless steel immersion sleeves shall be used. Applications in piping systems, in heating technology, in storage tanks, in district heating compact stations, in hot and coldwater systems, in oil and lubricant circulation systems, in mechanical, apparatus and plant engineering as well as in the entire industrial sector.

TECHNICAL DATA:

- Measuring range:..... -30...+150 °C
 (T_{max} NTC = 150 °C, T_{max} LM235Z = 125 °C)
- Sensors/output:..... see table, passive
 (optional also with two sensors)
- Connection type:..... 2-wire connection
 (3- or 4-wire connection optional)
- Testing current:..... ca. 1 mA
- Process connection:..... screwed socket with 1/2" pipe thread
- Immersion sleeve:..... ETF 1: brass, nickel-plated, 1/2" pipe thread,
 wrench size 22 mm, Ø=8 mm
 ETF2: stainless steel, 1.4571, V4A, 1/2" pipe thread,
 wrench size 27 mm, Ø=8 mm
- Protective tube:..... stainless steel, 1.4571, V4A, Ø=6 mm
- Connecting head:..... plastic, material polyamide, 30% glass-globe-reinforced,
with quick-locking screws,
 colour pure white (similar RAL9010)
 ambient temperature -20/+100 °C
- Dimensions: 72x64x39.4 mm
- Cable union:..... M16, including strain relief
- Electrical connection: 0.14- 1.5 mm²,
 via terminal screws on circuit board
- Insulating resistance:..... ≥ 100 MΩ, at 20 °C (500V DC)
- Max. pressure:..... ETF 1: brass immersion sleeves 10 bar
 ETF2: stainless steel immersion sleeves 40 bar
- Humidity:..... < 95% r.H.
- Protection class: III (according to EN 60730)
- Protection type:..... **IP 65** (according to EN 60529)

ETF1

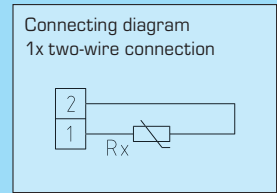
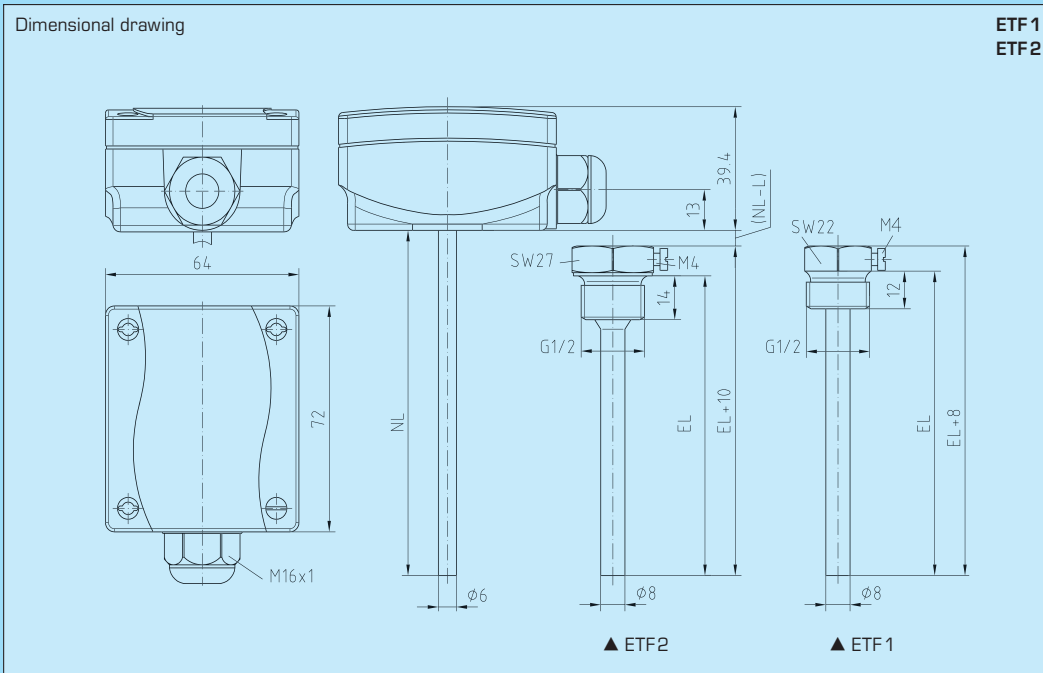


ETF2



THERMASGARD® ETF 1, ncluding brass immersion sleeve, 1/2" pipe thread:

Type/WG1 - Sensor/output/EL	50 mm	100 mm	150 mm	200 mm	250 mm	300 mm	400 mm
ETF 1 Pt100	•	•	•	•	•	•	•
ETF 1 Pt1000	•	•	•	•	•	•	•
ETF 1 Ni1000	•	•	•	•	•	•	•
ETF 1 Ni1000 TK5000	•	•	•	•	•	•	•
ETF 1 NTC 1,8 kOhm	•	•	•	•	•	•	•
ETF 1 KTY 81-210, NTC 10k 20k, 30k, 50k, 10k Pre	•	•	•	•	•	•	•
ETF 1 LM235Z (10mV/K)	•	•	•	•	•	•	•
Please indicate with your order:	Type and length of immersion sleeve e.g. ETF 1 Pt100, 150 mm; ETF 1 Ni1000, 250 mm						
For special orders please specify:	Type, measuring range, connection type, sensor, inserted length						



THERMASGARD® ETF2, including stainless steel immersion sleeve, 1/2" pipe thread:

Type/WG1 - sensor/output/EL	50 mm	100 mm	150 mm	200 mm	250 mm	300 mm	400 mm
ETF2 Pt100	•	•	•	•	•	•	•
ETF2 Pt1000	•	•	•	•	•	•	•
ETF2 Ni1000	•	•	•	•	•	•	•
ETF2 Ni1000 TK5000	•	•	•	•	•	•	•
ETF2 NTC 1,8 kOhm	•	•	•	•	•	•	•
ETF2 KTY81-210, NTC 10k, 20k, 30k, 50k, 10k Pre	•	•	•	•	•	•	•
ETF2 LM235Z (10mV/K)	•	•	•	•	•	•	•
Please indicate with your order:	Type and length of immersion sleeve e.g. ETF2 Pt100, 150 mm; ETF2 Ni1000, 250 mm						
For special orders please specify:	Type, measuring range, connection type, sensor, inserted length						