S+S REGELTECHNIK

Screw-in temperature sensors / immersion temperature sensors with passive output

Screw-in resistance thermometer / immersion temperature sensor THERMASGARD® ETF 5 with straight protective tube, connecting head made of aluminium and separate stainless steel immersion sleeve. It is used for the detection of temperatures in liquid or gaseous media, in piping systems, in vessels or storage tanks.

ETF 5

TECHNICAL DATA:

Measuring range: ..... -35...+180 °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

Protective tube: ..... stainless steel, 1.4571, V4A, Ø = 6 mm

Immersion sleeve: ..... stainless steel, 1.4571, V4A, G 1 / 2" straight pipe thread, wrench size 27 mm, Ø = 8 mm

Connecting head: ..... form B, material aluminium, colour white aluminium (similar RAL 9006), ambient temperature -20 / +100 °C, M 20 x 1.5

Electrical connection: ..... 0.14-2.5 mm² via terminal screws on ceramic base

Max. pressure: ..... stainless steel immersion sleeves 40 bar

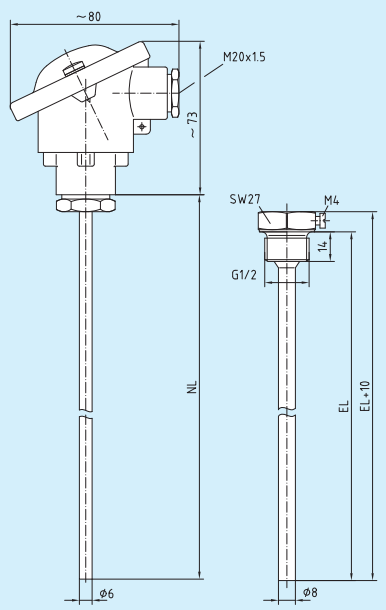
Insulating resistance: ..... ≥ 100 MΩ, at 20 °C (500 V DC)

Humidity: ..... < 95 % r.H.

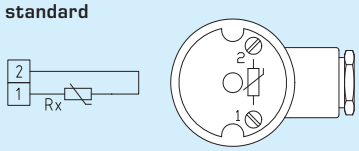
Protection class: ..... III (according to EN 60730)

Protection type: ..... IP 54 (according to EN 60529)

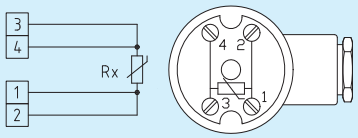
Dimensional drawing **ETF 5**



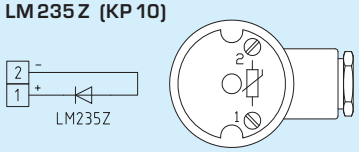
1x two-wire connection
standard



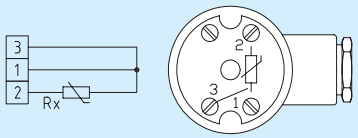
1x four-wire connection



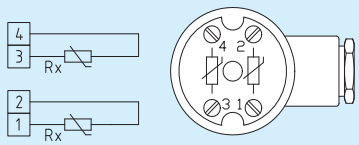
1x two-wire connection
LM 235 Z (KP 10)



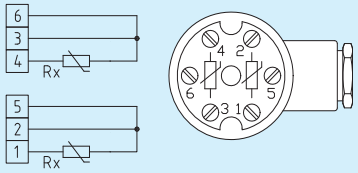
1x three-wire connection



2x two-wire connection



2x three-wire connection



THERMASGARD® **ETF 5,** including stainless steel immersion sleeve

Type / WG1 - Sensor / Output / EL	50 mm	100 mm	150 mm	200 mm	250 mm	300 mm	400 mm
ETF 5 Pt 100	●	●	●	●	●	●	●
ETF 5 Pt 1000	●	●	●	●	●	●	●
ETF 5 Ni1000	●	●	●	●	●	●	●
ETF 5 Ni1000 TK5000, LG-Ni1000	●	●	●	●	●	●	●
ETF 5 NTC 1.8 kOhm	●	●	●	●	●	●	●
ETF 5 KTY 81-210, NTC 10k, 20k, 30k, 50k, 10k Pre	●	●	●	●	●	●	●
ETF 5 LM235Z (TCR = 10 mV / K), KP10	●	●	●	●	●	●	●