

Screw-in/immersion temperature sensor with neck tube, with passive output

Screw-in resistance thermometer **THERMASGARD® ETF 6** with neck tube, exchangeable insert, straight protective tube, connecting head made of aluminium and passive output.

This temperature sensor is used for temperature detection in liquid or gaseous media, in piping systems, in vessels or storage tanks, preferably in cases where pipes or vessels have to be insulated.

ETF 6
Top view

TECHNICAL DATA

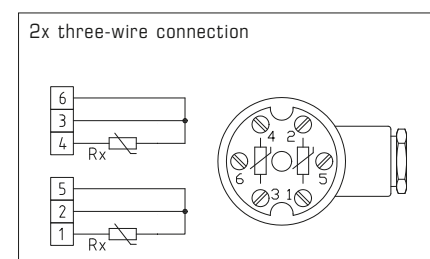
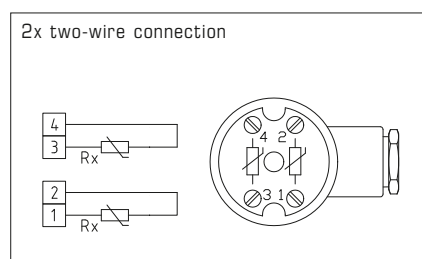
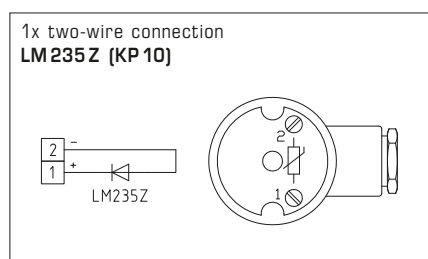
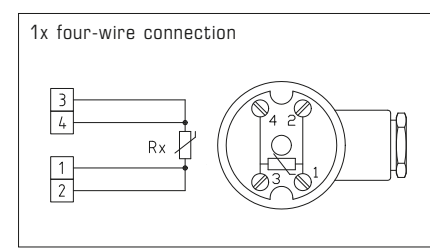
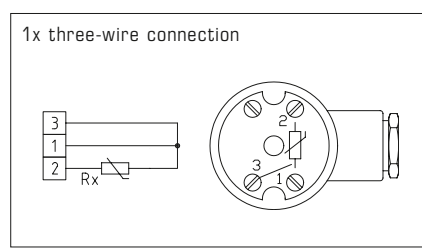
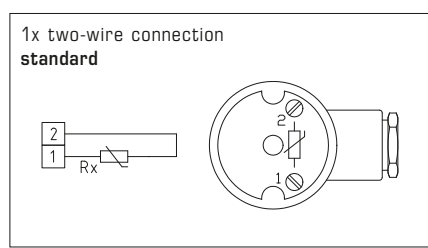
Measuring range:	-35...+180 °C (T_{max} NTC = +150 °C, T_{max} LM235Z = +125 °C)
Sensors / output:	see table, passive (Perfect Sensor Protection) (optional also with two sensors)
Connection type:	2-wire connection (3- or 4-wire connection optional)
Testing current:	approx. 1 mA
Process connection:	screwed socket with G ½" straight pipe thread
Protective tube:	stainless steel, 1.4571, V4A, G ½" straight pipe thread, wrench size 27 mm, p_{max} = 40 bar, \varnothing = 8 mm length of neck tube (HL) = 80 mm inserted length (EL) = 100-400 mm (see table)
Connecting head:	form B, aluminium material, white aluminium colour (similar RAL 9006), ambient temperature -20...+100 °C, M 20 x 1.5
Electrical connection:	0.14 - 1.5 mm ² via terminal screws on ceramic base
Insulating resistance:	≥ 100 MΩ, at +20 °C (500 V DC)
Humidity:	< 95 % r. H., non-precipitating air
Protection class:	III (according to EN 60 730)
Protection type:	IP 54 (according to EN 60 529), IP 65 (optional)

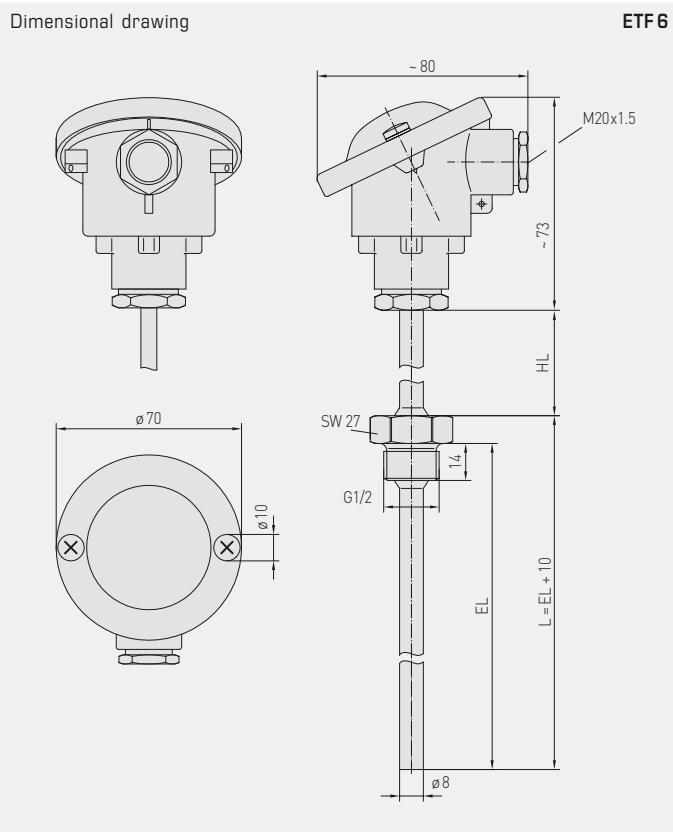


2-wire connection
(standard)



4-wire connection
(optional)





ETF 6



ETF 6 standard (IP 54)



ETF 6 optional (IP 65)

High-performance encapsulation against vibration, mechanical stress and humidity



THERMASGARD® ETF 6 – Screw-in/immersion temperature sensor with neck tube

Type / WG03 / EL	Sensor / Output	Item No.	Price
ETF6 PT100 xx	Pt100	IP 54	
ETF6 PT100 100/80	Pt100 (according to DIN EN 60 751, class B)	1101-2070-1023-000	71,42 €
ETF6 PT100 150/80	Pt100 (according to DIN EN 60 751, class B)	1101-2070-1033-000	75,17 €
ETF6 PT100 200/80	Pt100 (according to DIN EN 60 751, class B)	1101-2070-1043-000	77,31 €
ETF6 PT100 250/80	Pt100 (according to DIN EN 60 751, class B)	1101-2070-1053-000	79,35 €
ETF6 PT100 400/80MM	Pt100 (according to DIN EN 60 751, class B)	1101-2070-1083-000	81,83 €
ETF6 PT1000 xx	Pt1000	IP 54	
ETF6 PT1000 100/80	Pt1000 (according to DIN EN 60 751, class B)	1101-2070-5021-000	73,12 €
ETF6 PT1000 150/80	Pt1000 (according to DIN EN 60 751, class B)	1101-2070-5031-000	77,31 €
ETF6 PT1000 200/80	Pt1000 (according to DIN EN 60 751, class B)	1101-2070-5041-000	78,54 €
ETF6 PT1000 250/80	Pt1000 (according to DIN EN 60 751, class B)	1101-2070-5051-000	79,46 €
ETF6 PT1000 400/80	Pt1000 (according to DIN EN 60 751, class B)	1101-2070-5081-000	82,62 €
ETF6 Ni1000 xx	Ni 1000	IP 54	
ETF6 Ni1000 100/80	Ni1000 (according to DIN EN 43 760, class B, TCR = 6180 ppm/K)	1101-2070-9021-000	75,89 €
ETF6 Ni1000 150/80	Ni1000 (according to DIN EN 43 760, class B, TCR = 6180 ppm/K)	1101-2070-9031-000	77,25 €
ETF6 Ni1000 200/80	Ni1000 (according to DIN EN 43 760, class B, TCR = 6180 ppm/K)	1101-2070-9041-000	79,33 €
ETF6 Ni1000 250/80	Ni1000 (according to DIN EN 43 760, class B, TCR = 6180 ppm/K)	1101-2070-9051-000	79,75 €
ETF6 Ni1000 400/80	Ni1000 (according to DIN EN 43 760, class B, TCR = 6180 ppm/K)	1101-2070-9081-000	83,76 €
ETF6 Ni1000TK xx	Ni1000 TK5000	IP 54	
ETF6 Ni1000TK 100/80	Ni1000 TK5000 (TCR = 5000 ppm/K), LG-Ni1000	1101-2071-0021-000	76,24 €
ETF6 Ni1000TK 150/80	Ni1000 TK5000 (TCR = 5000 ppm/K), LG-Ni1000	1101-2071-0031-000	78,03 €
ETF6 Ni1000TK 200/80	Ni1000 TK5000 (TCR = 5000 ppm/K), LG-Ni1000	1101-2071-0041-000	80,06 €
ETF6 Ni1000TK 250/80	Ni1000 TK5000 (TCR = 5000 ppm/K), LG-Ni1000	1101-2071-0051-000	82,52 €
ETF6 Ni1000TK 400/80	Ni1000 TK5000 (TCR = 5000 ppm/K), LG-Ni1000	1101-2071-0081-000	84,61 €
ETF6 LM235Z xx	LM235Z	IP 54	
ETF6 LM235Z 100/80	LM235Z (TCR = 10 mV/K; 2.73 V at 0 °C), KP10	1101-2072-1021-000	72,49 €
ETF6 LM235Z 150/80	LM235Z (TCR = 10 mV/K; 2.73 V at 0 °C), KP10	1101-2072-1031-000	75,70 €
ETF6 LM235Z 200/80	LM235Z (TCR = 10 mV/K; 2.73 V at 0 °C), KP10	1101-2072-1041-000	77,31 €
ETF6 LM235Z 250/80	LM235Z (TCR = 10 mV/K; 2.73 V at 0 °C), KP10	1101-2072-1051-000	78,38 €
ETF6 LM235Z 400/80	LM235Z (TCR = 10 mV/K; 2.73 V at 0 °C), KP10	1101-2072-1081-000	83,33 €
ETF6 KTY81-210 xx	KTY81-210	IP 54	
ETF6 KTY81-210 100	KTY81-210	1101-2072-0021-000	76,02 €
ETF6 KTY81-210 150	KTY81-210	1101-2072-0031-000	77,16 €
ETF6 KTY81-210 200	KTY81-210	1101-2072-0041-000	78,33 €
ETF6 KTY81-210 250	KTY81-210	1101-2072-0051-000	81,71 €
ETF6 KTY81-210 400	KTY81-210	1101-2072-0081-000	84,02 €

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Type / WG03 / EL	Sensor / Output	Item No.	Price
ETF6 NTC 1.8K xx	NTC 1.8K	IP54	
ETF6 NTC1,8K 100/80	NTC 1.8K	1101-2071-2021-000	76,02 €
ETF6 NTC1,8K 150/80	NTC 1.8K	1101-2071-2031-000	77,16 €
ETF6 NTC1,8K 200/80	NTC 1.8K	1101-2071-2041-000	78,33 €
ETF6 NTC1,8K 250/80	NTC 1.8K	1101-2071-2051-000	81,71 €
ETF6 NTC1,8K 400/80	NTC 1.8K	1101-2071-2081-000	84,02 €
ETF6 NTC10K xx	NTC 10K	IP54	
ETF6 NTC10K 100/80	NTC 10K	1101-2071-5021-000	76,02 €
ETF6 NTC10K 150/80	NTC 10K	1101-2071-5031-000	77,16 €
ETF6 NTC10K 200/80	NTC 10K	1101-2071-5041-000	78,33 €
ETF6 NTC10K 250/80	NTC 10K	1101-2071-5051-000	81,71 €
ETF6 NTC10K 400/80	NTC 10K	1101-2071-5081-000	84,02 €
ETF6 NTC10K PR xx	NTC 10K Precon	IP54	
ETF6 NTC10KPR 100/80	NTC 10K Precon	1101-2071-9021-000	76,02 €
ETF6 NTC10KPR 150/80	NTC 10K Precon	1101-2071-9031-000	77,16 €
ETF6 NTC10KPR 200/80	NTC 10K Precon	1101-2071-9041-000	78,33 €
ETF6 NTC10KPR 250/80	NTC 10K Precon	1101-2071-9051-000	81,71 €
ETF6 NTC10KPR 400/80	NTC 10K Precon	1101-2071-9081-000	84,02 €
ETF6 NTC20K xx	NTC 20K	IP54	
ETF6 NTC20K 100/80	NTC 20K	1101-2071-6021-000	76,02 €
ETF6 NTC20K 150/80	NTC 20K	1101-2071-6031-000	77,16 €
ETF6 NTC20K 200/80	NTC 20K	1101-2071-6041-000	78,33 €
ETF6 NTC20K 250/80	NTC 20K	1101-2071-6051-000	81,71 €
ETF6 NTC20K 400/80	NTC 20K	1101-2071-6081-000	84,02 €
ETF6 NTC30K xx	NTC 30K	IP54	
ETF6 NTC30K 100/80	NTC 30K	1101-2071-7021-000	76,02 €
ETF6 NTC30K 150/80	NTC 30K	1101-2071-7031-000	77,16 €
ETF6 NTC30K 200/80	NTC 30K	1101-2071-7041-000	78,33 €
ETF6 NTC30K 250/80	NTC 30K	1101-2071-7051-000	81,71 €
ETF6 NTC30K 400/80	NTC 30K	1101-2071-7081-000	84,02 €
Extra charge:	Protection type IP65 (B-Head) Other sensors optional	on request	7,96 €

ETF6
optional
(IP65)ETF6
standard
(IP54)