

**Screw-in / immersion temperature sensors
with neck tube (stepped once)
with passive output**

Very quickly responding screw-in resistance thermometer / immersion temperature sensor **THERMASGARD® ETF 7** with passive output, neck tube and a single-tapered stainless steel protective tube, enclosure cover with quick-locking screws, very short reaction time, particularly suitable for very quick temperature changes and control operations, e.g. in hydraulic systems.

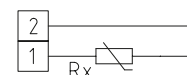
ETF 7

TECHNICAL DATA

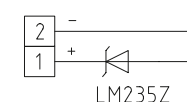
Measuring range:	-35...+150 °C
Sensors / output:	see table, passive (Perfect Sensor Protection)
Connection type:	2-wire connection (4-wire connection optional)
Response times:	$t_{0.5} = 2.8 \text{ s}$ $t_{0.9} = 10 \text{ s}$ (for water at a flow rate of 2 m/s)
Testing current:	approx. 1 mA
Process 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, $p_{\max} = 6 \text{ bar}$, $\varnothing = 6 \text{ mm}$, single-tapered to $\varnothing = 4 \text{ mm}$ (see dimensional drawing) length of neck tube (HL) = 25 mm inserted length (EL) = 100 - 250 mm (see table)
Enclosure:	plastic, material polyamide, 30% glass-globe-reinforced, with quick-locking screws, (slotted / Phillips head combination), colour pure traffic white (similar to RAL 9016)
Dimensions:	72 x 64 x 37.8 mm (Tyr 1)
Cable gland:	M 16 x 1.5, including strain relief, exchangeable, max. inner diameter 10.4 mm
Electrical connection:	0.14 - 2.5 mm ² via terminal screws
Insulating resistance:	$\geq 100 \text{ M}\Omega$, at +20 °C (500 V DC)
Humidity:	< 95% r. H., non-precipitating air
Protection class:	III (according to EN 60 730)
Protection type:	IP 65 (according to EN 60 529)



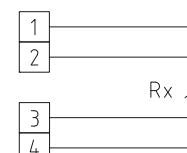
1x two-wire connection
standard



1x two-wire connection
LM235Z (KP 10)



1x four-wire connection
(optional)



High-performance encapsulation against
vibration, mechanical stress and humidity

PS-PROTECTION
PERFECT SENSOR PROTECTION





S+S REGELTECHNIK

THERMASGARD® ETF 7

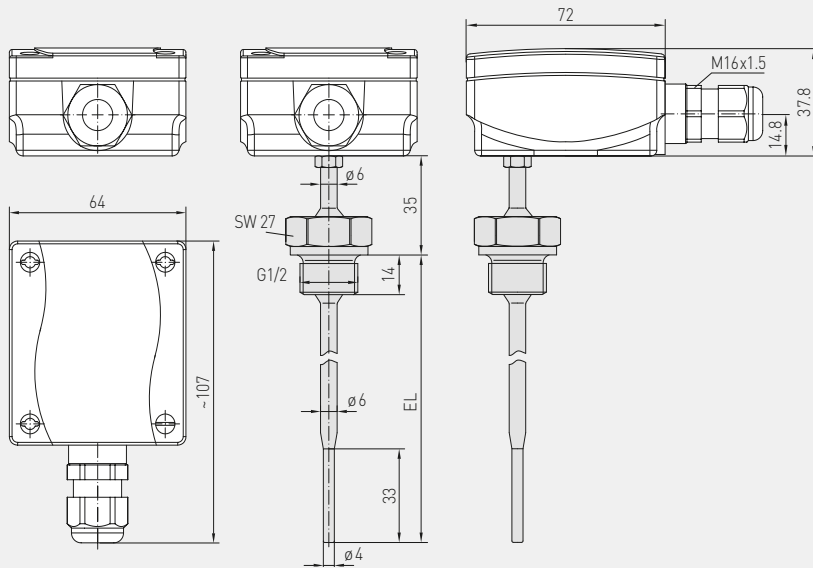
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Dimensional drawing

ETF 7

ETF 7



THERMASGARD® ETF 7 – Screw-in / immersion temperature sensor with neck tube

Type / WG01	Sensor / Output	Item No.	Price
ETF7 PT100 xx	Pt100	IP65	
ETF7 PT100 100MM	Pt100 (according to DIN EN 60 751, class B)	1101-2080-1023-000	120,36 €
ETF7 PT100 150MM	Pt100 (according to DIN EN 60 751, class B)	1101-2080-1033-000	121,56 €
ETF7 PT100 250MM	Pt100 (according to DIN EN 60 751, class B)	1101-2080-1053-000	124,33 €
ETF7 PT1000 xx	Pt1000	IP65	
ETF7 PT1000 100MM	Pt1000 (according to DIN EN 60 751, class B)	1101-2080-5021-000	121,66 €
ETF7 PT1000 150MM	Pt1000 (according to DIN EN 60 751, class B)	1101-2080-5031-000	122,46 €
ETF7 PT1000 250MM	Pt1000 (according to DIN EN 60 751, class B)	1101-2080-5051-000	124,93 €
ETF7 NI1000 xx	Ni1000	IP65	
ETF7 NI1000 100MM	Ni1000 (according to DIN EN 43 760, class B, TCR = 6180 ppm / K)	1101-2084-2021-000	134,18 €
ETF7 NI1000 150MM	Ni1000 (according to DIN EN 43 760, class B, TCR = 6180 ppm / K)	1101-2084-2031-000	135,46 €
ETF7 NI1000 250MM	Ni1000 (according to DIN EN 43 760, class B, TCR = 6180 ppm / K)	1101-2084-2051-000	137,17 €
ETF7 NI1000TK xx	Ni1000 TK5000	IP65	
ETF7 NI1000TK 100MM	Ni1000 TK5000 (TCR = 5000 ppm / K), LG - Ni1000	1101-2081-0021-000	126,48 €
ETF7 NI1000TK 150MM	Ni1000 TK5000 (TCR = 5000 ppm / K), LG - Ni1000	1101-2081-0031-000	126,81 €
ETF7 NI1000TK 250MM	Ni1000 TK5000 (TCR = 5000 ppm / K), LG - Ni1000	1101-2081-0051-000	127,99 €