THERMASGARD® ATF 2

Outside temperature sensors / wet room temperature sensors with passive output

S+S REGELTECHNIK

Outside wall resistance thermometers / weather sensors **THERM**ASGARD® **ATF 2** (external sensor) with passive output and housing made of impact-resistant plastic and with quick-locking screws.

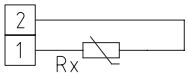
It is used to measure outside temperatures, temperatures in wet room areas, e.g. as a weather sensor, for installation on outside walls, in cold storage buildings and greenhouses, in halls, in the industrial sector and in agriculture. Outdoor installation should preferably be performed at the north side of a building or in a protected place.

In cases of direct solar irradiation, we recommend the use of our **WS01** or **WS04** sun protection hood (accessory) or the device version with installed sun protection hood **SS02** (available upon request).

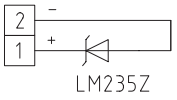
TECHNICAL DATA

Measuring range:	–50...+90 °C
Sensors / output:	passive (see table), sensor inside external sensor tube, stainless steel **V4A** (1.4571) (**Perfect Sensor Protection**)
Connection type:	2-wire connection (4-wire connection on PT100 / PT1000A, optional on other sensors)
Testing current:	< 0.6 mA (Pt1000) < 1.0 mA (Pt100) < 0.3 mA (Ni1000, Ni1000 TK5000) < 2.0 mW (NTC xx) 400 µA...5 mA (LM235Z)
Housing:	plastic, UV-resistant, material polyamide, 30 % glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016)
Housing dimensions:	72 x 64 x 37.8 mm (Tyr 1)
Cable connection:	**cable gland**, plastic (M 16 x 1.5; with strain relief, exchangeable, max. inner diameter 10.4 mm) **or** **M12 connector** according to DIN EN 61076-2-101
Electrical connection:	0.14 - 1.5 mm² via terminal screws
Insulating resistance:	≥ 100 MΩ, at +20 °C (500 V DC)
Permissible humidity:	< 95 % RH, non-precipitating air
Protection class:	III (according to EN 60 730)
Protection type:	**IP 65** (according to EN 60 529) Housing tested, TÜV SÜD, Report No. 713139052 (Tyr 1)
Optional:	with sun protection hood **SS 02** (available on request)

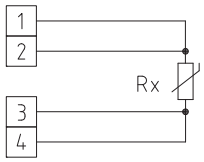
1x two-wire connection
standard



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



1x four-wire connection
(optional)





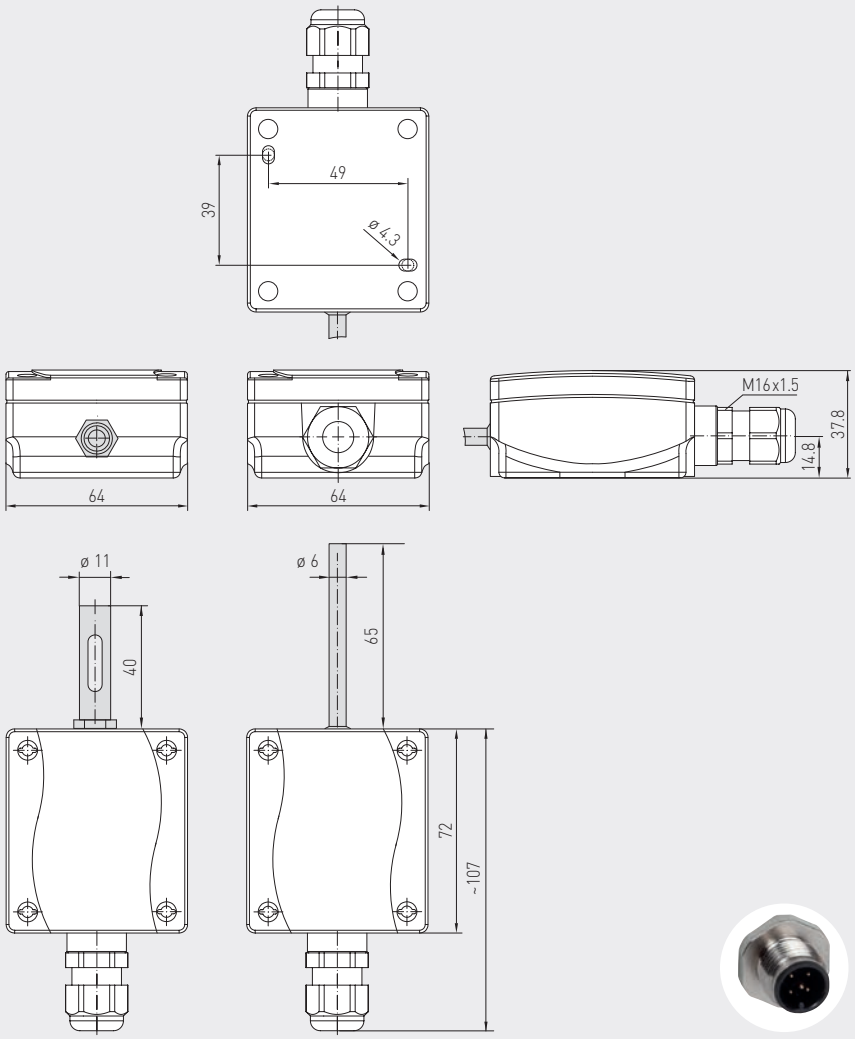


High-performance encapsulation against vibration, mechanical stress and humidity

PS-PROTECTION
PERFECT SENSOR PROTECTION

Dimensional drawing

ATF 2



with SS-02

without SS-02

M12 connector
(optional on request)

ATF 2



ATF 2
with SS-02



THERMASGARD® ATF 2 Outside temperature sensors / wet room temperature sensors			
Type / WG03	**Sensor / Output**	**Item No.**	**Price**
ATF 2			
ATF2 Pt100	Pt100 (according to DIN EN 60 751, class B)	1101-1050-1003-000	**39,70 €**
ATF2 Pt1000	Pt1000 (according to DIN EN 60 751, class B)	1101-1050-5001-000	**39,70 €**
ATF2 Pt1000A	Pt1000 (according to VDI / VDE 3512, class A-TGA)	1101-1050-6003-000	**49,30 €**
ATF2 Ni1000	Ni1000 (according to DIN EN 43 760, class B, TCR = 6180 ppm / K)	1101-1050-9001-000	**42,01 €**
ATF2 NiTK	Ni1000 TK5000 (TCR = 5000 ppm / K), LG-Ni1000	1101-1051-0001-000	**42,01 €**
ATF2 LM235Z	LM235Z (TCR = 10 mV / K; 2.73 V at 0 °C), KP10	1101-1052-1001-000	**39,09 €**
ATF2 NTC1,8K	NTC 1.8 K	1101-1051-2001-000	**38,29 €**
ATF2 NTC10K	NTC 10K	1101-1051-5001-000	**38,29 €**
ATF2 NTC20K	NTC 20K	1101-1051-6001-000	**38,29 €**
Extra charge:	Other sensors optional with sun protection hood **SS 02** Cable connection with **M12 connector** according to DIN EN 61076-2-101	on request on request on request	**10,03 €**
ACCESSORIES			
WS-01	**Sun and ball-impact protection hood,** 184 x 180 x 80 mm, stainless steel **V2A** (1.4301)	7100-0040-2000-000	**32,72 €**
WS-04	**Weather and sun protection hood,** 130 x 180 x 135 mm, stainless steel **V2A** (1.4301)	7100-0040-7000-000	**38,61 €**
	For further information see last chapter!		