

**Outside temperature sensors / wet room temperature sensors
with passive output**

Outside wall resistance thermometer / weather sensor **THERMASGARD® ATF 1** (internal sensor) with passive output, enclosure made of impact-resistant plastic and quick-locking screws.

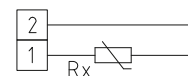
Outside wall resistance thermometer / weather sensor **THERMASGARD® ATF 01** (internal sensor) with passive output, enclosure made of impact-resistant plastic and snap-on lid.

It is used to measure outside temperatures, temperatures in wet room areas, e.g. as an outdoor sensor, weather sensor for installation on outside walls, in cold storage buildings and greenhouses, in halls, in the industrial sector and in agriculture. Installation in outdoor areas preferably at the north side of a building or in a protected place. In cases of direct solar irradiation, we recommend the use of our **WS 01** or **WS 04** sun protection hood (accessory).

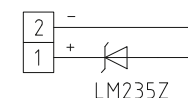
TECHNICAL DATA

Measuring range:	-50...+90 °C
Sensors / output:	passive (see table), sensors internal
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)
Enclosure:	plastic, UV-stabilised, material polyamide, 30 % glass-globe reinforced, colour traffic white (similar to RAL 9016), ATF 01 with snap-on lid, ATF 1 with quick-locking screws (slotted / Phillips head combination)
Enclosure dimensions:	72 x 64 x 37,8 mm (Tyr 1 / Tyr 01)
Cable gland:	M 16 x 1,5; including strain relief, exchangeable, max. inner diameter 10,4 mm
Electrical connection:	0,14 - 1,5 mm ² via terminal screws
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:	ATF 01 IP 43 (according to EN 60 529) ATF 1 IP 67 (according to EN 60 529)

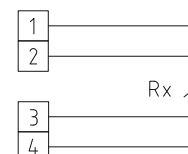
1x two-wire connection
standard



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



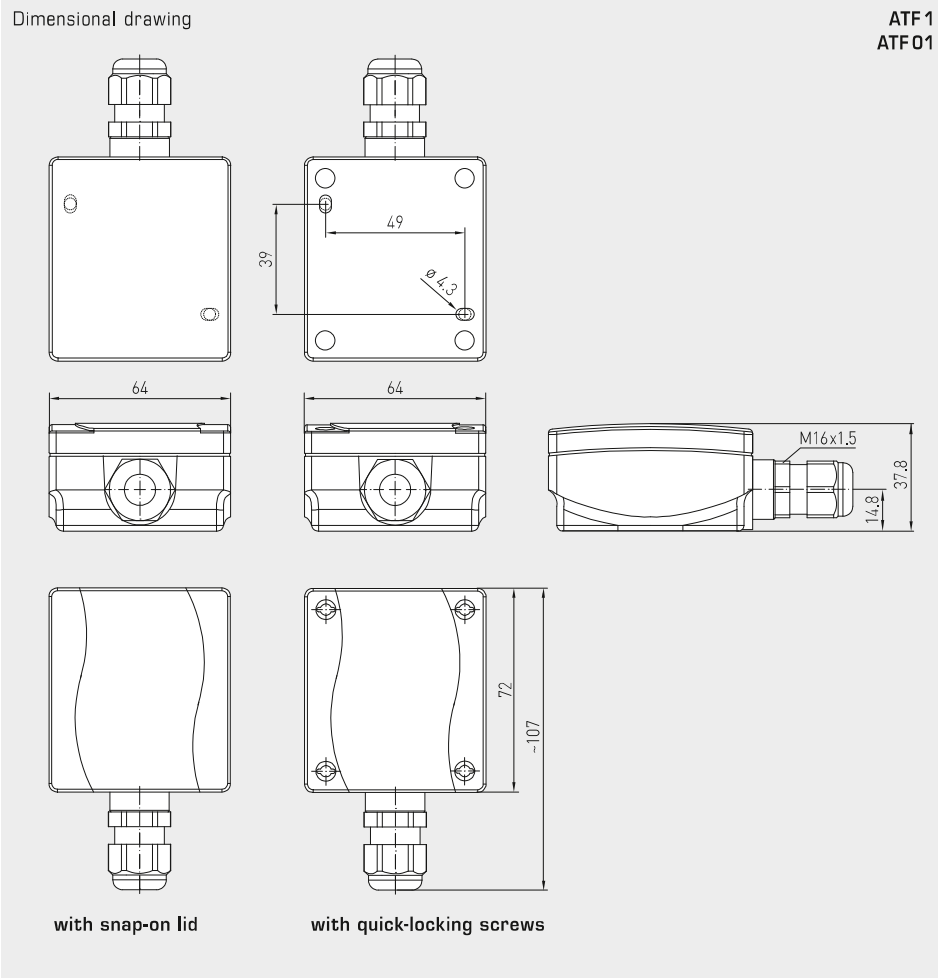
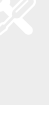
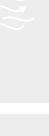
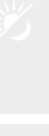
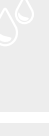
1x four-wire connection
(optional)



THERMASGARD® ATF 01 Outside temperature sensors / wet room temperature sensors, *Standard* with snap-on lid

Type / WG03	Sensor / Output	Item No.
ATF 01	Pt, Ni, LM235Z	IP 43
ATF01 PT100	Pt100 (according to DIN EN 60 751, class B)	1101-1030-1003-000
ATF01 PT1000	Pt1000 (according to DIN EN 60 751, class B)	1101-1030-5001-000
ATF01 Ni1000	Ni1000 (according to DIN EN 43 760, class B, TCR = 6180 ppm / K)	1101-1030-9001-000
ATF01 NITK	Ni1000 TK5000 (TCR = 5000 ppm / K), LG-Ni1000	1101-1031-0001-000
ATF01 LM235Z	LM235Z (TCR = 10 mV / K; 2.73 V at 0 °C), KP10	1101-1032-1001-000
ATF 01	NTC	IP 43
ATF01 NTC1,8K	NTC 1,8K	1101-1031-2001-000
ATF01 NTC10K	NTC 10K	1101-1031-5001-000
ATF01 NTC20K	NTC 20K	1101-1031-6001-000
Note:	Other sensors optional	on request
Accessories		
WS-01	Sun and ball-impact protection hood, 184 x 180 x 80 mm, stainless steel V2A (1.4301)	7100-0040-2000-000
WS-04	Weather and sun protection hood, 130 x 180 x 135 mm, stainless steel V2A (1.4301)	7100-0040-7000-000

For further information see last chapter!



ATF 01
with snap-on lid
(IP 43)



ATF 1
with quick-locking screws
(IP 65)



THERMASGARD® ATF 1 Outside temperature sensors / wet room temperature sensors, *Premium* with quick-locking screws

Type / WG03	Sensor / Output	Item No.
ATF 1	Pt, Ni, LM235Z	IP65
ATF1 PT100	Pt100 (according to DIN EN 60 751, class B)	1101-1040-1003-000
ATF1 PT1000	Pt1000 (according to DIN EN 60 751, class B)	1101-1040-5001-000
ATF1 PT1000A	Pt1000 (according to VDI/VDE 3512, class A-TGA)	1101-1040-6003-000
ATF1 NI1000	Ni1000 (according to DIN EN 43 760, class B, TCR = 6180 ppm/K)	1101-1040-9001-000
ATF1 NITK	Ni1000 TK5000 (TCR = 5000 ppm/K), LG-Ni1000	1101-1041-0001-000
ATF1 LM235Z	LM235Z (TCR = 10 mV/K; 2.73 V at 0 °C), KP10	1101-1042-1001-000
ATF 1	NTC	IP65
ATF1 NTC1,8K	NTC 1.8K	1101-1041-2001-000
ATF1 NTC10K	NTC 10K	1101-1041-5001-000
ATF1 NTC20K	NTC 20K	1101-1041-6001-000
Note:	Other sensors optional	on request
Accessories		
WS-01	Sun and ball-impact protection hood, 184 x 180 x 80 mm, stainless steel V2A (1.4301)	7100-0040-2000-000
WS-04	Weather and sun protection hood, 130 x 180 x 135 mm, stainless steel V2A (1.4301)	7100-0040-7000-000

For further information see last chapter!