

On-wall radiation temperature sensors with passive output

Resistance thermometer **THERMASGARD® ASTF** with passive output, terminal box enclosure made of impact-resistant plastic and enclosure cover with quick-locking screws. This radiation sensor is specifically designed for temperature detection in wet areas or in larger rooms or halls. The on-wall radiation temperature sensor ASTF determines the effective portion of active radiation or the effective radiant heat at the measured location. Due to the measuring method employed by the dark radiation temperature sensor, excellent and room-representative measuring results are achieved.

ASTF

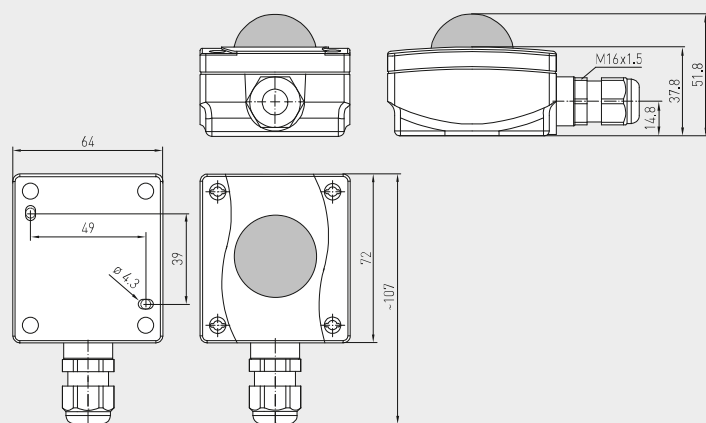


TECHNICAL DATA

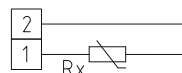
Measuring range:	−30 ...+ 75 °C
Sensors / output:	see table, passive (optional also with two sensors)
Connection type:	2-wire connection (4-wire connection on PT100/PT1000A, optional on other sensors)
Testing current:	< 0,6 mA (Pt1000) < 1,0 mA (Pt100) < 0,3 mA (Ni1000, Ni1000 TK5000) < 2,0 mW (NTC xx) < 2,0 mA (KTY 81-210) 400 µA...5 mA (LM235Z)
Insulating resistance:	≥ 100 MΩ, at +20 °C (500 V DC)
Process connection:	by screws
Enclosure:	plastic, UV-stabilised, material polyamide, 30 % glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016), semi-globe: black
Enclosure dimensions:	72 x 64 x 37,8 (51,8) mm (Tyr 1)
Cable gland:	M16 x 1,5; including strain relief, exchangeable, max. inner diameter 10,4 mm
Electrical connection:	0,14 - 1,5 mm², via terminal screws
Humidity:	< 95 % r. H.
Protection class:	III (according to EN 60 730)
Protection type:	IP 65 (according to EN 60 529)

Dimensional drawing

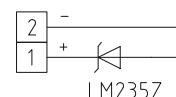
ASTF



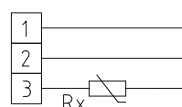
1x two-wire connection standard



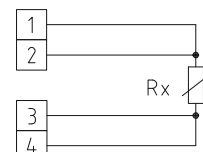
1x two-wire connection LM235 Z (KP 10)



1x three-wire connection (optional)



1x four-wire connection (optional)



THERMASGARD® ASTF On-wall radiation temperature sensors

Type / WG03	Sensor / Output	Item No.
ASTF	Pt, Ni, LM235Z, KTY	IP65
ASTF PT100	Pt100 (according to DIN EN 60 751, B)	1101-1060-1003-000
ASTF PT1000	Pt1000 (according to DIN EN 60 751, class B)	1101-1060-5001-000
ASTF NI1000	Ni1000 (according to DIN EN 43 760, class B, TCR = 6180 ppm / K)	1101-1060-9001-000
ASTF NITK	Ni1000 TK5000 (TCR = 5000 ppm / K), LG-Ni1000	1101-1061-0001-000
ASTF LM235Z	LM235Z (TCR = 10 mV / K; 2.73 V at 0 °C), KP10	1101-1062-1001-000
ASTF KTY81-210	KTY 81-210	1101-1062-0001-000
ASTF	NTC	IP65
ASTF NTC1,8K	NTC 1.8K	1101-1061-2001-000
ASTF NTC10K	NTC 10K	1101-1061-5001-000
ASTF PRECON	NTC 10K Precon	1101-1061-9001-000
ASTF NTC20K	NTC 20K	1101-1061-6001-000