

Room temperature sensors in-wall, panel switch programme, general

A room temperature sensor **THERMASGARD® FSTF** is used for air temperature measurement or setpoint adjustment, for presence detection or as room control and operating panel with temperature sensor, push-buttons, potentiometers, status indicators (LEDs).

The in-wall sensor is mounted in high-quality panel switch programmes, ideally of the brands Gira, Berker, Merten, Jung, Siemens or Busch-Jaeger (using in-wall adapters) either individually or in combination with light switches, socket outlets, etc.

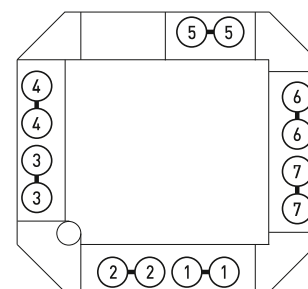
It is used in non-aggressive, dust-free environments, in refrigeration, air conditioning and clean room technology, and in interior rooms, such as living rooms, offices, hotels, etc.

TECHNICAL DATA

Measuring ranges:	−30...+60 °C
Sensor/output:	see table, assembled on board, passive
Range suppression:	in the button
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)
Potentiometers:	standard 1 kΩ, max. 0.1 W (other ratings optional on request, e.g. 100 Ω, 2.5 kΩ, 5 kΩ, 10 kΩ optional 0-10 V linear)
Turn switches:	max. 24 V AC/DC, max. 130 mA, max. 5 steps (0, Auto, I, II, III)
Rocker switch:	max. 24 V AC/DC, max. 130 mA
Push-buttons:	normally open contact, max. 24 V DC/10 mA
LEDs:	max. 24 V DC (optional max. 24 V AC), standard green (red, yellow or two-colour optional)
Installation:	in in-wall flush box Ø 55 mm
Electrical connection:	via plug terminals, 0.14 - 1.5 mm², on safety extra-low voltage only, max. 42 V AC, 60 V DC
Humidity:	max. 90% r.H., non-precipitating air
Protection class:	III (according to EN 60 730)
Protection type:	IP 20 (according to EN 60 529)
SWITCH PROGRAMMES	
Manufacturer:	GIRA System 55 Standard (other switch programmes, manufacturers, and prices upon request)
Housing:	plastic, colour pure white glossy (similar to RAL 9010) (other colours are possible on request with colour variants depending on the respective switch programme)

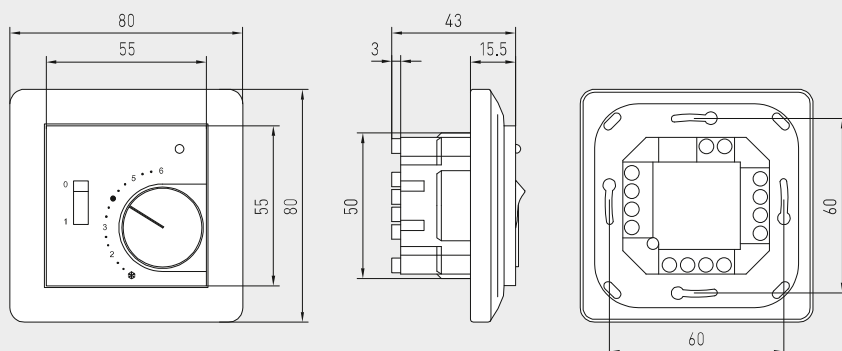
Circuit diagram

FSTF -xx



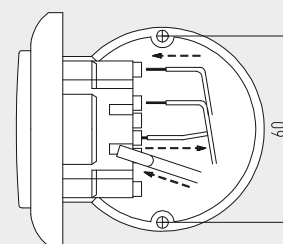
Dimensional drawing

FSTF -xx



Installation scheme

FSTF -xx





S+S REGELTECHNIK

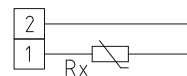
THERMASGARD® FSTF 1

Room temperature sensors
in-wall, panel switch programme,
standard version

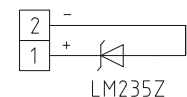


FSTF 1
Standard version
with sensor

1x two-wire connection
Standard



1x two-wire connection
LM235Z (KP10)



THERMASGARD® FSTF 1 Room temperature sensors

Type / WG01	Sensor / Output	Item No.
FSTF1	passive	IP20 (-30...+60 °C)
FSTF1 PT100	Pt100 (according to DIN EN 60 751, class B)	1101-5020-1000-162
FSTF1 PT1000	Pt1000 (according to DIN EN 60 751, class B)	1101-5020-5000-162
FSTF1 NI1000	Ni1000 (according to DIN EN 43 760, class B, TCR = 6180 ppm / K)	1101-5020-9000-162
FSTF1 NITK	Ni1000 TK5000 (TCR = 5000 ppm / K), LG-Ni1000	1101-5021-0000-162
FSTF1 LM235Z	LM235Z (TCR = 10 mV / K; 2.73 V at 0 °C), KP10	1101-5022-1000-162
FSTF1 NTC1,8K	NTC 1.8 K	1101-5021-2000-162
FSTF1 NTC10K	NTC 10K	1101-5021-5000-162
FSTF1 NTC20K	NTC 20K	1101-5021-6000-162

Dimensional drawing

FSTF - 1

