

**Room temperature sensor or measuring transducer,
in-wall in the panel switch programme,
with active output**

The room sensor **THERMASGARD® FSTM / FSTM - P** in the in-wall housing, optionally with potentiometer, is used for measuring the room temperature, and for setpoint adjustment. It converts the measured values into a standard signal of 0-10 V. A digital, long-term stable sensor is used for temperature measurement.

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, no setpoint adjustment possible) 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

Power supply:	24 V AC / DC ($\pm 10\%$)
Power consumption:	< 1.1 W / 24 V DC; < 2.2 VA / 24 V AC

TEMPERATURE

Sensor:	digital temperature sensor , low hysteresis, high long-term stability
Long-term stability:	$\pm 1\%$ per year
Measuring range:	0...+50 °C
Accuracy, temperature:	typically $\pm 0.8\text{ K}$ at +25 °C
Output, temperature:	0-10 V

POTENTIOMETER

Output, potentiometer:	0-10 V (FSTM-P with setpoint adjustment, not possible with Busch-Jaeger)
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GENERAL

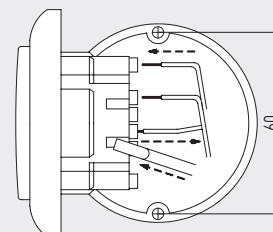
Mounting:	in-wall flush box $\varnothing 55\text{ mm}$
Electrical connection:	1,0 - 2,5 mm ² , via plug terminals
Ambient temperature:	Storage -35...+85 °C; Operation 0...+50 °C
Permitted humidity:	max. 90 % RH, non-precipitating air
Medium:	clean air and other non-aggressive, non-combustible gases
Protection class:	III (according to EN 60 730)
Protection type:	IP 20 (according to 60 529)
Standards:	CE conformity according to EMC Directive 2014 / 30 / EU

SWITCH PROGRAMME

Manufacturer:	GIRA System 55 (other switch programmes, manufacturers, colours as well as prices available upon request)
Housing:	plastic, the standard colour is pure glossy white (similar to RAL 9010) (other colours are available upon request with colour variants depending on the respective light switch programme)

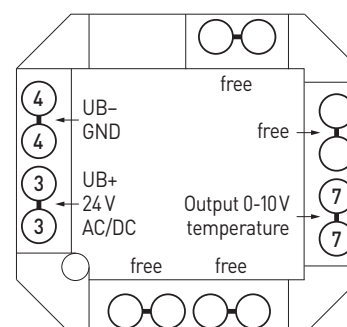
Mounting diagram
[mm]

in-wall



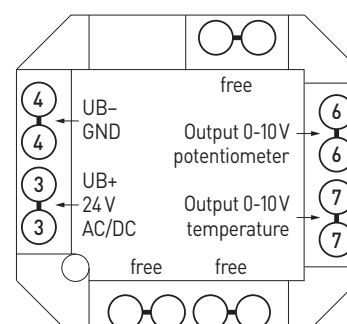
Connection diagram

FSTM



Connection diagram

FSTM - P





S+S REGELTECHNIK

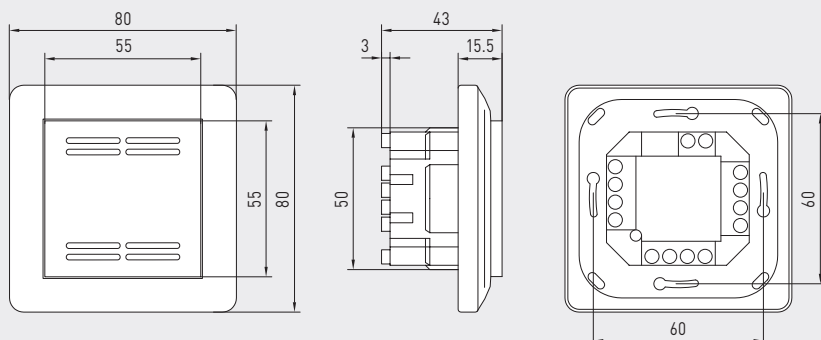
THERMASGARD® FSTM
THERMASGARD® FSTM-P

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Dimensional drawing
[mm]

FSTM

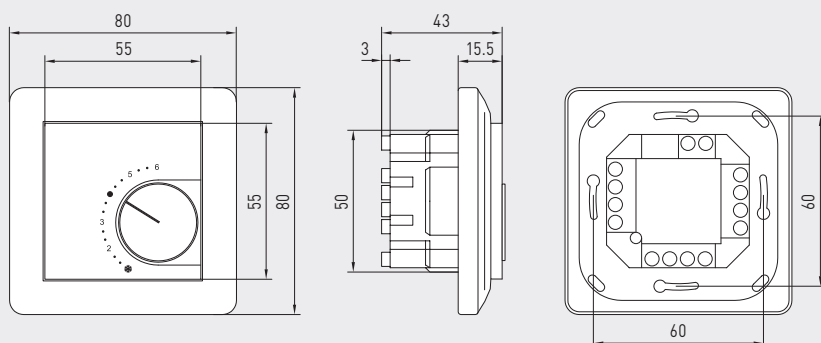


FSTM
Standard



Dimensional drawing
[mm]

FSTM-P



FSTM-P
with potentiometer



Temperature table
MR: 0...+50 °C

°C	U _A [V]
0	0.0
5	1.0
10	2.0
15	3.0
20	4.0
25	5.0
30	6.0
35	7.0
40	8.0
45	9.0
50	10.0

THERMASGARD® FSTM Room temperature sensor or measuring transducer, in-wall
THERMASGARD® FSTM-P Room temperature sensor or measuring transducer, in-wall with potentiometer

Type / WG02	Measuring Range Temperature	Output Temperature	Potentiometer	Item No.
FSTM				
FSTM-U	0...+50 °C	0-10V	–	1101-9121-0000-162
FSTM-P				
FSTM-U P	0...+50 °C	0-10V	0-10V	1101-9121-0004-282

