
DATA SHEET

(Technical subjects to change
Date 07/2010)

Room temperature sensor RTF3

Application

This device is used for temperature detection in closed, dry rooms, in apartments, office and business facilities. Connection to common heating and regulating systems is possible with different measuring elements¹.

Product overview

AUTF	Sensor	Passive, ranges upon request ¹ Measuring transducer MUA active, 4...20mA Measuring transducer MUV active, 0...10 V
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Specifications

In general:

Dimensions:	See dimensional drawing
Material casing:	ASA in pure white
Protection class:	IP20
Weight:	64 g

Measuring temperature: -30°C...+70°C

Measuring elements¹:

Following measuring elements are available:

- PT100
- PT100 1/3DIN
- PT1000
- PT1000 1/3DIN
- Ni1000
- Ni1000TK5000
- FeT
- NTC 5k, 10k, 20k
- NTC 1,8 kOhm
- Precon
- KTY81-210
- LM235Z

Measuring ranges:	Depends on measuring element
Accuracy:	Depends on measuring element
Measurement current:	Typ. <1mA
Connection:	Max. 1,5mm ² via terminal screws 2-Wire/3-Wire/4-Wire



Image: RTF3

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Measuring transducer MUA²

Power supply: DC 15...30 V
Current sensor: $\leq 0,5\text{mA}$
Lowest measuring point: 25K
Highest measuring point: 1050K
Measuring ranges: Freely programmable
Output: 4...20mA
Electrical connection: $\leq 1,75\text{mm}^2$ via terminal screws

Measuring transducer MUV³

Power supply: DC 15...30 V
Current sensor: $\leq 0,5\text{mA}$
Lowest measuring point: 25K
Highest measuring point: 1050K
Measuring ranges: Freely programmable
Output: 0...10 V
Electrical connection: $\leq 1,75\text{mm}^2$ via terminal screws

Installation information

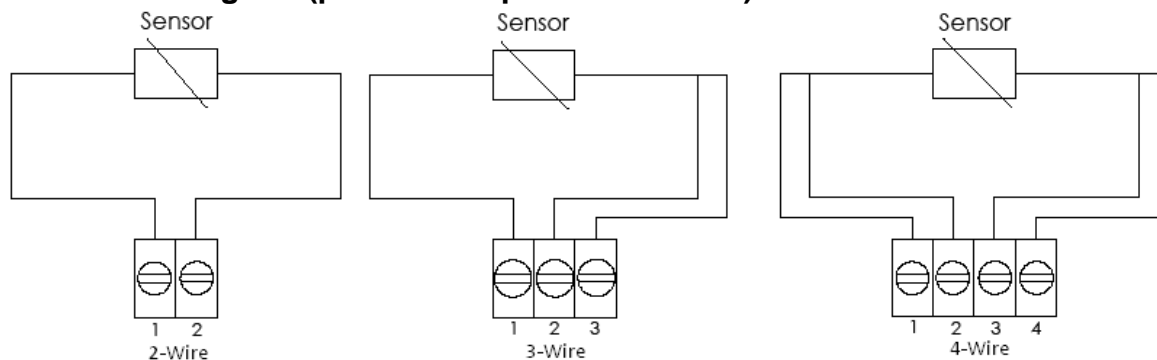
This device can be mounted on walls via screws.

NOTICE:



These instruments must be installed by authorised specialists only! Devices shall only be used for their intended purpose. The customer has to ensure adherence to the building and safety regulations and has to avoid all dangers of any kind.

Connection diagram (passive temperature sensor)



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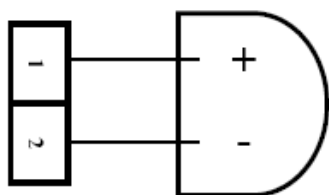
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Connection of LM235Z

The LM235Z is a semiconductor IC. Please pay attention to polarity while connecting! The polarity is marked at the casing. The LM235Z has a maximum allowable measurement current of 400µA...5mA with 10mV/°K.

Please pay attention to polarity: clamp 1 = (+), clamp 2 = (-)



Optional accessories

Measuring transducer: MUA (active, 4...20 mA)²
MUV (active, 0...10V)³

Stainless steel casing

Standards

EMV: EN60730-1 (2000) Interference resistance
EN60730-1 (2000) Emitted interference
CE-Conformance: 89/336/EWG Electromagnetic compatibility
