



FS1080

Temperature transducer room, digital output

Measuring size: temperature

Output: Modbus RTU, Relay

Highlights: on-wall or on flush-mounted box



Description

The FS1080 temperature transducer in modern room design registers the temperature via the sensor in the housing and converts this measured value into a digital output signal.

The room temperature transducer is, for example in offices or flats, fitted onto the wall or on the flush-mounted socket. In the event of a deviation from the reference temperature the service correction can be performed directly on the device.

As special equipment a potential-free alternating contact and/or a backlit display are available. The contents of the display can be rotated in steps of 90° by using a command.

As special functions a series of defined measured values from other bus-participants (also cross-manufacturers) can be shown in the display. To display measured values from other bus-participants these are entered into the corresponding register by the bus-Master. The optional alternating contact can be configured for measured values from other bus-participants.

The configuration of address, transmission mode/speed, terminating resistor and master/slave function of the bus-devices can easily be done using the innovative DIP switch technology. Thus devices can quickly and easily be integrated into the system and later parameterised via the master.

The bus-devices can even be reset to the works settings during operation of the master. Thus the basic functionality of the device is recreated in a matter of seconds. This can be necessary in the event of incorrect parameterisations of, e.g. offset, switching threshold, display modes etc..

By means of the FS master/slave topology autarkic nodes without additional SPS master can be installed within the device series. Hereby a bus-device assumes the master function in the node. This requests the measured values from other bus-participants, automatically enters these into the corresponding register and shows them in the internal display. Furthermore the master can evaluate and operate additional actuators in the device series (analogue in- and outputs, relay station).



Technical Specifications

Measurement range temp.	0...+50°C
Accuracy	±0,2 K + max. ±1% mv (-30?+100°C), else ±0,3 K + max. ±1,5% mv
Offset	can be entered in the register
Supply voltage	24 V DC (±5%)
Current consumption	max. 20 mA + 30 mA (option display) + 20 mA (option relay)
Digital output	Modbus RTU
Alarm output	1 x potential-free change-over contact, 48 V, 1 A
Switching Hysteresis Relay	can be entered in the register
Electrical connection	push-in terminal, no tools required, time-saving
Housing	ABS polyman, colour signal white like RAL 9003
Cable gland	on the back or housing side (predetermined breaking point)
Display	optional LCD display with backlight on/off/auto
Dimensions	Housing: L 82 x W 82 x H 25 mm
Protection type	IP30, IP20 (with display)
Protection class	III
Working range r.H.	0...98% r.H. in contaminant-free, non-condensing air
Working temperature	Electronic: -20...+70°C
Storage temperature	-20...+70°C
Installation	on-wall or on flush-mounted box
Approvals	CE, EAC, RoHS

Variants

Article Number		
Temperature	Output	Equipment
FS1080-MBR-T1-D		
0...+50°C	Modbus RTU	Display
FS1080-MBR-T1-DR		
0...+50°C	Modbus RTU	Display, Relay
FS1080-MBR-T1-R		
0...+50°C	Modbus RTU	Relay
FS1080-MBR-T1-X		
0...+50°C	Modbus RTU	-



Accessories



FS9510

Table stand for room housing



Dimensional Drawing

