

FuehlerSysteme eNET International Die Marke für Sensorik



FS1580

Transducer indoor for brightness, movement, humidity and temperature, digital output

Measuring size: temperature, rel. humidity, brightness, motion Output: Modbus RTU, Relay Highlights: modern housing design, on-wall or on flush-mounted box



Description

The transducer FS1580 detects the brightness, movement, humidity and temperature. The measuring transducer converts the measured values into a digital output signal.

The modern room housing is specially designed for indoor use. The brightness sensor is optimally suited for an energy efficient control of buildings, such as e.g. controlling the lighting in offices, industrial facilities etc..

In the register the switching threshold, hysteresis, offset value etc can be specified.

As special equipment a potential-free alternating contact ist available. The optional alternating contact can be configurated 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 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

0-100 kLux
0-100% r.H.
motion yes/no, apex angle 90°/110° on 360° range, reach 10 m
-30+100°C
±3% r.H. (30-70% r.H., else ±5% r.H., at 20°C)
±10% FS
±0,3 K (1040°C, else ±0,5 K),
±5% FS / 10 K
<1s
can be entered in the register
Motion: infrared sensor, Brightness: photodiode, Humidity/Temperature: combined
electronic sensor
mounted inside housing
Humidity: 10 min, Temperature: 10 min
24 V DC (±5%)
max. 20-200 mA, depending on the selected measurand and equipment
Modbus RTU
1 x potential-free change-over contact, 48 V, 1 A
can be entered in the register
adjustable from 5 s up to 15 min
threshold can be entered in the register
push-in terminal, no tools required, time-saving
ABS polyman, colour signal white like RAL 9003
on the back or housing side (predetermined breaking point)
Housing: L 82 x W 82 x H 25 mm
IP30
III
098% r.H. in contaminant-free, non-condensing air
0+50°C
-20+50°C
on-wall or on flush-mounted box
CE, EAC, RoHS



Variants

Article Number						
Brightness	Movement	Humidity	Temperature	Output	Equipment	
FS1580-MBR-B1-R						
0-100 kLux	-	-	-	Modbus RTU	Relay	
FS1580-MBR-B1-X						
0-100 kLux	-	-	-	Modbus RTU	-	
FS1580-MBR-B1M1-R						
0-100 kLux	yes/no	-	-	Modbus RTU	Relay	
FS1580-MBR-B1M1-X						
0-100 kLux	yes/no	-	-	Modbus RTU	-	
FS1580-MBR-H1M1T1-R						
-	yes/no	0-100% r.H.	-30+100°C	Modbus RTU	Relay	
FS1580-MBR-H1M1T1-X						
-	yes/no	0-100% r.H.	-30+100°C	Modbus RTU	-	
FS1580-MBR-M1-R						
-	yes/no	-	-	Modbus RTU	Relay	
FS1580-MBR-M1-X						
-	yes/no	-	-	Modbus RTU	-	

Accessories



FS9510 Table stand for room housing



Dimensional Drawing







