

QM42-DPS20-2Q
Temperature and Humidity Sensor – With Serial Interface
RS485/Modbus RTU

Keine Maßzeichnung
vorhanden!

No drawing available!



Technical data

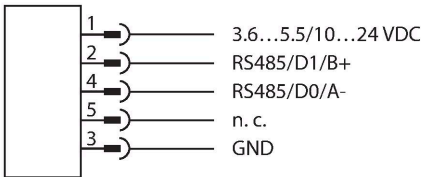
Type	QM42-DPS20-2Q
ID	3812239
Wireless data	
Function	Temperature/humidity sensor
Device type	Sensor
I/O data	
Output type	Modbus RTU (RS485)
Communication protocol	RS485 Modbus RTU
Electrical data	
Operating voltage	12...24 VDC
Mechanical data	
Design	Cylinder, threaded, M12FTH
Dimensions	103 mm
Housing material	Metal, Grey
Electrical connection	Connector, M12 × 1
Antenna connection	No radio participant
Ambient temperature	-40...+85 °C
Relative humidity	0...100 %
Protection class	IP67

Tests/approvals

Features

- Robust metal housing
- Ambient temperature: -40...+85 °C
- Protection class IP67
- Relative humidity: 0...100 %
- Resolution: 0.1 %
- Temperature measuring range: -40...+85 °C
- Resolution: 0.1 °C
- Operating voltage: 10...24 VDC or 3.6...5.5 VDC
- RS485 interface, supports Modbus RTU

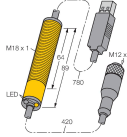
Wiring diagram



Functional principle

This robust sensor in a metal housing was developed to monitor vibrations and the temperature of moving machine parts. The data can be transmitted to a controller via the RS485 interface, allowing an imminent failure of the machine to be detected at an early stage and corrective action to be taken. The robust housing is IP67 rated and allows the detection of vibrations on two axes. The sensor can be mounted or stuck on the machine with the relevant accessories.

Accessories

Dimension drawing	Type	ID	
	BWA-HW-006	3081325	Converter cable, RS485 to USB 2.0 converter, female connector, M12 × 1, 5-pin, male connector, USB type A, length 1 m; supplies the connected device with 10 V. An external power supply via a Y-splitter (6634679) is recommended for the connected device