

Temperature and Humidity Sensor With Serial Interface RS485/Modbus RTU M12FTH3Q

M12 x 1	ED / 17/4 M12 x 1 40.2 29 103	
		 Robust metal housing
Туре	M12FTH3Q	Ambient temperature: -40+85
ID	3025898	Protection class IP67
		Relative humidity: 0100 %
Wireless data		Resolution: 0.1 %
Function	Temperature/humidity sensor	Temperature measuring range:
Device type	Sensor	+85 °C
I/O data		Resolution: 0.1 °C
Communication protocol	Modbus RTU	 Operating voltage: 1024 VDC
·	RS485	5.5 VDC
		 RS485 interface, supports Mod
Electrical data		
Operating voltage U _B	1224 VDC	
		Wiring Diagram
Mechanical data		
Design	Tube, M12FTH	3.65.5/
Housing material Electrical connection	Metal, Grey	RS485/D1
Antenna connection	Connector, M12 × 1 No radio participant	RS485/DO
Ambient temperature	-40+85 °C	n. c. 3 GND
	-40705 C	
Relative humidity	0100%	

- S°C
- -40...
- C or 3.6...
- dbus RTU
 - 5/10...24 VDC 1/B+ 00/A-

Functional principle

This sturdy sensor in a metal housing was developed to monitor vibrations and the temperature of moving machine parts. The data can be transferred 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 rugged 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.

Tests/approvals



Function accessories

Type code	Ident no.		Dimension drawing
BWA-HW-006	3081325	Converter cable, RS485 to USB 2.0 converter, female con- nector, 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	M18 x 1 64 780 LED 420

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