Using WiFi as a universal measured data network:

MSR 145W2D WiFi Data Logger with Flex-Connector

Wireless data logger (WiFi) for monitoring temperature, humidity, fluid pressure, air pressure, light, acceleration, strain gauges and more.

The main features of the new MSR wireless data logger are its ease of use, accurate measurements, quick data transfer and greater flexibility when selecting the sensors.

- Integration either into an existing WiFi or via an access point, by means of mobile network access where required, into a separate wireless network.
- WiFi range can be extended with a commercially available repeater.
- Store measured data locally or in the MSR SmartCloud.
- Alarm message if limit value is exceeded.
- Retrieve, analyse and export measured data online at any time.
- Compatible with LabVIEW.
- Flex-Connector for customer-specific adaptation of the desired sensors.

General technical data on the MSR 145W2D

Memory capacity:	Over 1 000 000 measured values.
Measurement/Storage rate:	1/s up to every 12 h
OLED display:	Resolution 96 x 64 pixels Display area 22.14 mm W x 15.42 mm H
Interface:	USB, WiFi, MSR SmartCloud
PC software:	MSR Setup, Reader, Viewer and Online software MSR WLAN Dashboard and Viewer
Operating conditions:	Temperature: -20...+65 °C
Storage conditions: Temperature: Humidity:	+5...+45 °C (ideal storage conditions for the battery) 10...95 % relative humidity, non-condensing
Standards:	MSR 145W2D complies with EU-DirectivesRoHS/WEEE.

Housing and battery selection

Housing	Sheat material	Battery	Size & Weight (W x H x L)
Standard IP 60	PC, not encapsulated	260 mAh	35 x 17 x 57 mm, approx. 27 g
	PC, not encapsulated	900 mAh	35 x 25 x 57 mm, approx. 43 g
Waterproof IP 67	PC, encapsulated	260 mAh	35 x 17 x 57 mm, approx. 36 g
	PC, encapsulated	900 mAh	35 x 25 x 57 mm, approx. 62 g

Selection of sensors and connections

You can select various internal sensors and up to five external sensors or connections.

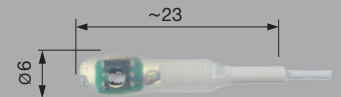| Measured parameters	Working range	Accuracy (max. deviation)
Temperature	ext.: -40...+125 °C	0.2 °C (-10...+50 °C) ±1 °C (-40...+125 °C)
	int.: -20…+65 °C	0.2 °C (-10...+50 °C)
Connector for thermal element of Type K (without sensor)	-200...+1350 °C	
Relative humidity with integrated temperature	0…100 % rel. humidity ext. -40...+125 °C int. -20...+65 °C	±1.8 % rel. humidity (10…85 %, 0…+40 °C) ±4 % rel. humidity (85…95 %, 0…+40 °C)
Air pressure absolute, with integrated temperature	10...2000 mbar absolute ext.: -40...+85 °C int.: -20...+65 °C	±2 mbar (750…1100 mbar absolute, +25 °C)
	0...14 bar absolute -20...+65 °C	±50 mbar (1...10 bar abs., +25 °C)
Fluid pressure with integrated temperature Material in contact with media: • Stainless Steel AISI 316L (DIN1.4404/1.4435) • O-Rings: Viton® 70° Shore	0...3000 mbar absolute -20...+85 °C	max. ±30 mbar
	0...30 bar absolute -20...+85 °C	max. ±0.3 bar
	0...400 bar absolute -20...+85 °C	max. ±4 bar
3-axis-acceleration (static)	-15...+15 g -20...+65 °C	±0.15 g (0...5 g, +25 °C) ±0.25 g (5...10 g, +25 °C) ±0.45 g (10...15 g, +25 °C)
3-axis-acceleration with fast peak (800 Hz)		
Light	0…65 000 lx	max. sensitivity at 500 nm
Connection for strain gauges	full bridge rated output 1 mV/V bridge voltage 3 V	
Flex-Connector	for customer-specific adaptation of the desired sensors	

Additional analogue inputs for connecting third-party sensors

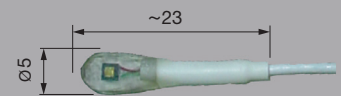| Analogue inputs	Technical data
	4 or 8 analogue inputs with freely selectable input configuration: 0…20 mA; 4…20 mA, 0…3.0 V; 0…5.0 V; 0….10.0 V; 0…12.0 V; 0…24.0 V; 0…36.0 V **Resolution:** 12 bit **Measurement/storage rate:** 1/s up to every 12 h

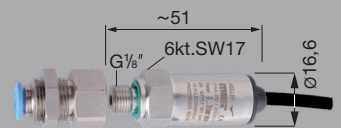**Please contact us for prices and terms of delivery.**

ext. temperature sensor

ext. humidity sensor

ext. light sensor

ext. air pressure sensor

ext. fluid pressure sensor

Distributor:

0619