

More flexibility when choosing your sensors:

Wireless Data Logger MSR145W2D with WiFi and FlexSensors



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

The MSR145W2D stores over one million measured values. By integration with a WLAN/WiFi network, the data logger can be used to flexibly implement practically any kind of measurement applications.



- 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
- data storage is guaranteed even if the transmitter fails
- MSR SmartCloud: retrieve, analyse and export measured data online
- alarm message if limit value is exceeded
- MSR WLAN software for graphical visualization, components for LabVIEW available
- FlexConnector for interchangeable FlexSensors

General Technical Data of the MSR 145W2D WiFi Data Logger

Memory capacity:	Over 1 000 000 measured values.
Measurement/storage rate:	1/s up to every 12 h
OLED display:	High-contrast, brilliant OLED colour display to show data and graphical charts, resolution 96 x 64 pixels.
Interface:	USB, WiFi
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:	The MSR 145W2D complies with EU-Directives RoHS/WEEE.

Housing and Battery Selection

Housing	Sheat material	Battery	Size & Weight (W x H x L)
Standard IP 60	PC, not encapsulated	230 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	230 mAh	35 x 17 x 57 mm, approx. 36 g
	PC, encapsulated	900 mAh	35 x 25 x 57 mm, approx. 62 g

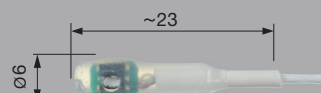
Selection of Sensors and Connections

You can select various internal sensors as well as up to five external sensors or connectors. The intelligent **FlexConnector** plug connection for interchangeable **FlexSensors** guarantees you the greatest possible flexibility. Info: www.msr.ch/en/msr145w2d

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	-1000...3000 mbar relative -20...+85 °C	±30 mbar (1 % FS)
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	±30 mbar (1 % FS)
	0...30 bar absolute -20...+85 °C	±0.3 bar (1 % FS)
	0...400 bar absolute -20...+85 °C	±4 bar (1 % FS)
	0...1000 bar absolute -20...+85 °C	±10 bar (1 % FS)
3-axis-acceleration (static)	-15...+15 g -20...+65 °C	±0.15 g (0...5 g, +25 °C)
Light	0...65 000 lx	max. sensitivity at 500 nm
Connection for strain gauges	full bridge • rated output 1mV/V • bridge voltage 3 V	
Analogue inputs Resolution: 12 bit	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; 0...48.0 V	
Control Terminal	alarm output • input for starting and stopping data recording • 3 V voltage output	
FlexConnector	Please find suitable FlexSensors on our website.	



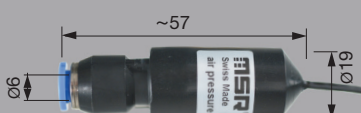
ext. temperature sensor



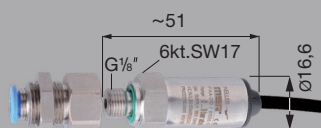
ext. humidity sensor



ext. light sensor



ext. air pressure sensor



ext. fluid pressure sensor

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