

More flexibility when choosing your sensors:

Wireless Data Logger MSR145W2D with WiFi, Display and MSR SmartCloud



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

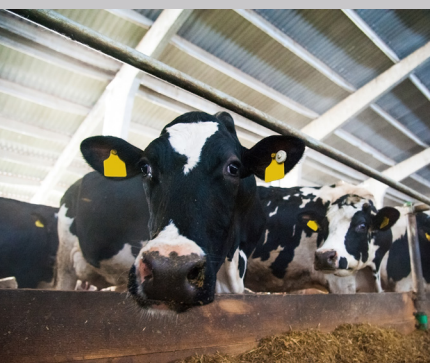
The MSR145W2D stores over one million measured values. By integration with a WLAN/WiFi network, the data logger can be used to flexibly implement practically any kind of measurement applications.



- 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
- Flex-Connector for customer-specific adaptation of the desired sensors.

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: +5...+45°C (ideal storage conditions for the battery) Humidity: 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	

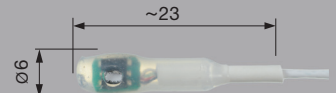
Additional analogue inputs for connecting third-party sensors

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; 0...48.0 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



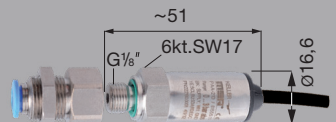
ext. humidity sensor



ext. light sensor



ext. air pressure sensor



ext. fluid pressure sensor

MSR Electronics GmbH
Mettlenstrasse 6
CH-8472 Seuzach
Switzerland
Phone +41 52 316 25 55
Fax +41 52 316 35 21
info@msr.ch
www.msr.ch



Distributor:

