

MSR 145: Mini datalogger voor Temperatuur, Vochtigheid, Druk, Licht, Versnelling



Deze duimgrootte MSR145 datalogger is in staat om gelijktijdig te meten en registreren van zowel temperatuur, vochtigheid, druk, 3-assige versnelling en licht.

Met de MSR 145 kunt u kiezen uit verschillende behuizingen, batterijcapaciteiten, sensoren en aansluitingen. Vrij selecteerbare meetsnelheden tot 50 metingen per seconde garanderen een volledige documentatie van snelle processen. Afhankelijk van de instelling van de meetsnelheid en de keuze van de batterij, kan de MSR145 gegevens tot twee jaar opslaan.

Alle gemeten waarden kunnen snel worden overgebracht naar een computer via de USB-interface voor gegevensanalyse. De gebruiksvriendelijke MSR PC software voor data acquisitie en analyse wordt gratis meegeleverd met uw MSR145 datalogger.

MSR145 data loggers zijn «Air Cargo Approved» en voldoen dus aan de luchtvracht veiligheidsvoorschriften.

Algemene technische gegevens

Memory capacity: Over 2000000 measured values – expandable to over 1bn measured values with optional microSD card.

Measurement/storage rate Detailed information can be found at www.msr.ch

Push-button: Set bookmark or start and stop recording.

LED:
 Blue: Record indicator
 Red: Alarm indicator
 Yellow: Battery change indicator

Power supply:
 • Lithium-polymer battery, 230 mAh or 1000 mAh.
 • The battery is charged via the USB connection.

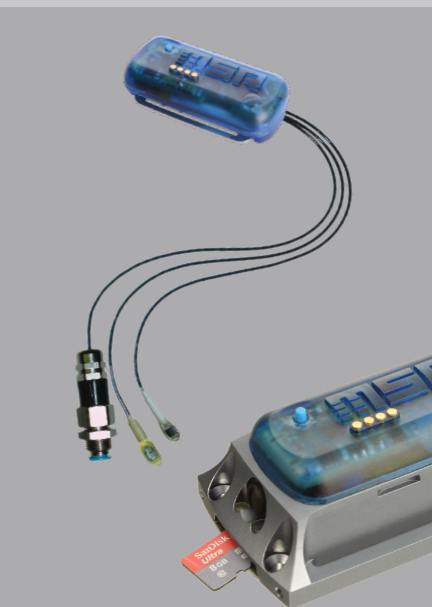
Sensors: You can select different internal sensors and up to five external sensors or connections.

Interface: USB






PC software: Free MSR PC software for configuration and evaluation of the data. PC requirements: Windows 7 or higher.

Operating conditions:
Storage conditions:
 • Temperature -20...+65°C
 • Temperature +5...+45°C (ideal storage conditions for the battery)
 • 10...95% relative humidity, non-condensing

Standards: The MSR145 complies with EU-Directives RoHS/WEEE.



MSR 145 met microSD kaart

Housing	Sheet material battery capacity	Picture	Size & weight (W x H x L)	Medium
Standard IP 60	PC housing 230 mAh		27x16x53 mm approx.20g	Air
	PC housing 1000 mAh		39x23x72 mm approx.56g	
Waterproof IP 67	Silicon tube 230 mAh		20x14x62 mm approx.18g	Air, various liquids
	PC housing 230 mAh		27x16x53 mm approx.27g	
	PC housing 1000 mAh		39x23x72 mm approx.64g	

Keuze sensoren

Stel uw MSR145 datalogger samen en selecteer de gewenste interne en externe sensoren (kabel lengte 0,20 m, 1,0 m, 1,6 m).

Measured parameters	Working range	Accuracy (max. deviation)
Temperature	ext.: -55...+125°C	±0.5°C (-10...+65°C) ±2°C (-55...+125°C)
	ext.: -40...+125°C int.: -20...+65°C	±0.2°C (-10...+50°C) ±1°C (-40...+125°C)
Connector for thermal element of type K (without sensor)	-200...+1350°C	
Relative humidity with integrated temperatuur	0...100% rel. humidity ext. -20...+85°C int. -20...+65°C	±2% 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 (1% FS) (750...1100 mbar absolute, +25°C)
	0...14 bar absolute -20...+65°C	±50mbar (1% FS) (1...10 bar abs., +25°C)
Fluid pressure with integrated temperature	-1000...3000 mbar relative -20...+85°C	±30mbar (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	±30mbar (1% FS)
	0...30 bar absolute -20...+85°C	±0.3bar (1% FS)
	0...400 bar absolute -20...+85°C	±4bar (1% FS)
	0...1000 bar absolute -20...+85°C	±10bar (1% FS)
3-axis-acceleration opt. Fast Peak (1 kHz)	±15g -20...+65°C	±0.15g (0...5 g, +25°C) ±0.25g (5...10g, +25°C) ±0.45g (10...15g, +25°C)
Light	0...65'000 lx	max. sensitivity at 500 nm
Connection for strain gauges	full bridge • rated output 1mV/V • bridge voltage 3V	
Analogue inputs Resolution: 12 bit	4 analogue inputs with freely selectable input configura- tion: 0...20 mA; 4...20 mA, 0...3.0V; 0...5.0V; 0...10.0V; 0...12.0V; 0...24.0V; 0...36.0V; 0...48.0V	
Control terminal	alarm output • input for starting and stopping data recor- ding • 3V voltage output	



Externe temperatuur sensor



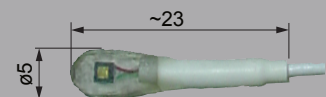
Connector voor
thermokoppels



Externe Lucht vochtigheid
sensor



Externe vloeistofdruk sensor



Externe licht sensor

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