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MSR175 Shock, Air Pressure, Light, Humidity and Temperature Data Logger

MSR175 Transportation Data Logger

Records Shock, Temperature, Humidity, Pressure and Light

Part Number: **MSR175B16T6H3P5AA5L2**



- Internal Sensors for 3-Axis Acceleration, Air Pressure, Light, Humidity and Temperature
- Records in Range of $\pm 15g/\pm 200g$ and -20°C to 65°C Temperature Range
- Stores Over 2,000,000 Measured Values, Which is Sufficient for more than 1,000 Shocks and Jolt
- Events Rechargeable 260 mAh Lithium Polymer Battery
- Data from any number of loggers can be merged synchronously into a single Data Record
- Made in Switzerland, Swiss Made



MSR175 Shock Air Pressure Light Humidity and Temperature Data Recorder**Specifications**

Measured Parameters	3-Axis Acceleration Air Pressure Light Humidity Temperature
Acceleration	<u>Number of Sensors:</u> 2 <u>Measurement Range:</u> $\pm 15g$ and $\pm 200g$ <u>Accuracy ($\pm 15g$):</u> $\pm 0.15g$ ($25^{\circ}C$) <u>Accuracy ($\pm 200g$):</u> $\pm 2g$ @ $25^{\circ}C$ <u>Measurement Rate ($\pm 15g$):</u> 6,400 Samples per Second
Air Pressure	<u>Number of Sensors:</u> 1 <u>Measurement Range:</u> 0 to 2000mbar absolute <u>Accuracy:</u> $\pm 2.5mbar$ ($25^{\circ}C$) <u>Measurement Rate:</u> 1 Sample per 10 Minutes
Light	<u>Number of Sensors:</u> 1 <u>Measurement Range:</u> 0 to 65,000 lx Accuracy: 500 nm (Max Sensitivity) <u>Measurement Rate:</u> 1 Sample per 10 Minutes
Humidity	<u>Number of Sensors:</u> 1 <u>Measurement Range:</u> 0 to 100% RH Accuracy (10 to 85%RH): $\pm 2\%$ ($25^{\circ}C$) Accuracy (Other Ranges): $\pm 4\%$ ($25^{\circ}C$) <u>Measurement Rate:</u> 1 Sample per 10 Minutes
Temperature	<u>Measurement Range:</u> $-20^{\circ}C$ to $65^{\circ}C$; <u>Accuracy:</u> $\pm 0.5^{\circ}C$ ($-10^{\circ}C$ to $65^{\circ}C$) <u>Measurement Rate:</u> 10 Minutes
Data Storage Capacity	Over 2 Million Total Recorded Readings
Key	Start Measurement/Retrieve Status
Color	Amber
LEDs	<u>Blue:</u> Recording Indicator Red: Alarm Indicator <u>Yellow:</u> Battery Charge Indicator
Power Supply	Rechargeable 260mAh Lithium Polymer Battery (USB Connection to PC recharges unit)
Battery Life	2-3 Months (Sampling Rate: 1 Minute)
Enclosure	Encapsulated Poly Carbonate (PC)
Standards Compliance	IP67 (/ip-codes-explanation) , RoHS/WEEE
Communications Interface	USB
Storage Conditions	<u>Temperature:</u> $5^{\circ}C$ to $45^{\circ}C$ <u>Humidity:</u> 10 to 95% RH, non-condensing

MSR175 Shock, Air Pressure, Light, Humidity and Temperature Data Logger

Operating Conditions	<u>Temperature:</u> -20°C to 65°C
Software	MSR ShockViewer Automatic Report Generation, Detailed Analysis of Shock Event, Clearly Show and Organize Environmental Data
Software Compatible	Windows 10, 8, 7, Vista and XP
Weight	28 grams
Dimensions	47mm x 16mm x 54mm