MSR BudgetLine: Reusable Climate Data Loggers for Transport and Storage

MSR BudgetLine compact data loggers reliably document (using automatic PDF-report) the temperature and humidity of sensitive goods, such as pharmaceuticals, chemicals and food.

These reusable BudgetLine data loggers are DIN12830 and 21 CFR Part 11 compliant and conform to the EU regulations for storage and transport of cooled and frozen goods, as well as those of the US Food and Drug Administration (FDA).

- **free MSR BudgetLine software** to configure the data logger on the PC
- **6-point-calibration certificate** stored on the logger
- **fast data transfer** and straight-forward data assessment on the PC
- **automatic PDF-report** of recorded measured data
- **clear status and alarm LEDs**
- **free TLog Explorer software** for further data analysis

Technical Data	MSR 63 Temperature Data Logger	MSR 83 Temperature Data Logger with Display
Housing: PC, ABS Food Grade, IP54, not encapsulated		
Display:	none	current value minimum, maximum and average value
Size (W x H x L):	39 x 8 x 58 mm	43 x 10 x 80 mm
Weight:	approx. 18 g	approx. 30 g

Technical Data Temperature Data Loggers MSR 63 and MSR 83

Temperature range:	-30…+70 °C
Accuracy:	0.5 °C (-30…+70 °C)
Resolution:	0.1 °C
Memory capacity:	16 000 values
Measuring/storage rate:	1 minute up to 10 days
Alarm:	min./max. value, indication on LED and Display
Type of battery:	3.0 V lithium battery (Panasonic CR2032)
Life of battery:	approx. 1 year, new battery replacable by manufacturer
Interface:	USB 2.0, A-Type
PDF-report:	automatic

Technical Data	MSR 64 Temperature and Humidity Logger	MSR 84 Temperature and Humidity Logger with Display
Housing: PC, ABS Food Grade, IP54, not encapsulated		
Display:	none	current value minimum, maximum and average value
Size: (W x H x L)	39 x 8 x 58 mm	43 x 10 x 80 mm
Weight:	approx. 18 g	approx. 30 g

Technical Data Temperature and Humidity Data Loggers MSR 64 und MSR 84

Temperature sensor, Range and Accuracy:	-30…+70 °C 0.5 °C (-30…+70 °C)
Humidity sensor Range and Accuracy:	0…98 % rel. humidity (-30…+70 °C) ± 3 % rel. humidity
Resolution:	0.1 °C
Memory capacity	32 000 values (16 000 per canal)
Measuring/storage rate:	1 minute up to 10 days
Alarm:	min./max. value, indication on LED and Display
Type of battery:	3.0 V lithium battery (Panasonic CR2032)
Life of battery	approx. 1 year, new battery replacable by manufacturer
Interface	USB 2.0, A-Type
PDF-report	automatic

Secure monitoring and documenting of transport and storage conditions
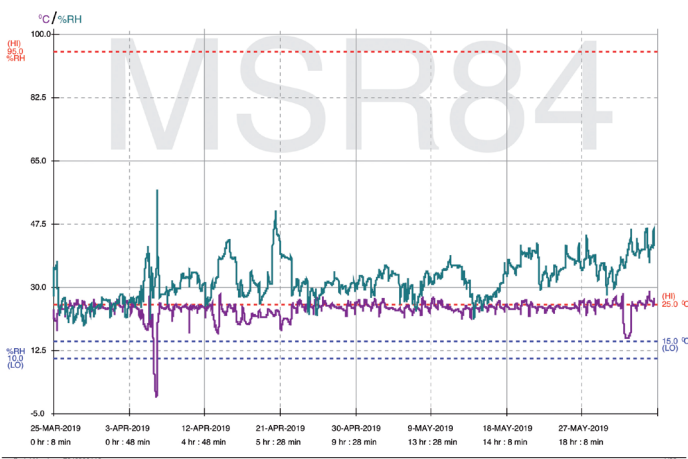
The MSR BudgetLine data loggers are fitted with **clear status and alarm LEDs,** which indicate instantly if the transport or storage conditions are within the pre-defined values.

Recorded measured data can easily be transferred to a PC using a USB stick. When the data logger is stopped a **PDF report is automatically generated,** which can be saved or printed for documentation purposes. For further data assessment the user can benefit from the **free TLog Explorer software.**

Please contact us for prices and terms of delivery.

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