

Memory Adapter Technical Data

Supported Measuring Instruments

METRAHit 12S ... 16S, 16I/T, 18S, 14A, 22S/M ... 29S

Operating Elements and Operation

7 segment LCD display and 4 keys.

Almost all parameters can be configured manually, or with a PC via the interface.

Memory

128 kB CMOS memory with battery backup.

Measurement value storage in accordance with the differential value method (compressed) with adjustable hysteresis. An average of 50,000, and at least 20,000 measurement values are acquired depending upon whether or not significant signal changes or time spans occur between the individual measurements. A maximum of 100,000 measurement values are acquired if only minimal signal changes occur, if the sampling rate is equal to or less than 0.5 s and if hysteresis has been set to ALL.

Real-Time Clock

Real-time clock with battery backup. Max. error: 0.5 minutes per month

Interface

To the Multimeter Optical receiver/transmitter, 950 nm wavelength, 8192 / 9600 baud, 8 bits, no parity, 1 stop bit

Interface To the PC:

9-pin subminiature integrated socket with threaded sleeves

adjustable baud rate: 9600, 19,200 or 38,400 baud, 8 bits, no parity, 1 stop bit

To the Data Memory Adapter:

9-pin subminiature integrated plug with knurled screws

Number of Adapters

Up to 10 data memory adapters can be interconnected.

The maximum number depends upon the selected sampling rate for online PC data acquisition:

With METRAHit 1x

up to 6 adapters at a baud rate of 19.2 kBd

up to 4 adapters at a baud rate of 9.6 kBd

With METRAHit 2x

up to 3 adapters at a sampling rate of 50 ms

up to 8 adapters at a sampling rate of 200 ms

Power Supply:

Alkaline-manganese per IEC LR6 type 4006: 2300 mAh

Service Life With alkaline-manganese cells, switched off:
27,000 h = 3 years (without self-discharging)

Sampling Rate	Service Life
50 ms ... 1 s	750 h
2 s	2 200 h
5 s	4 400 h
10 s	6 600 h
20 s	8 800 h
30 s	10 000 h
60 s	11 000 h

Consumption from PC control lines approx. 1.1 mA at a sampling rate of 50 ms

Electrical Safety

Safety low-voltage device per DIN VDE 0411, clearances and creepage distances per IEC 1010/ DIN VDE 0411

EMC

Interference Suppression Radio interference level N per DIN VDE 0875, limit value class B per DIN VDE 0871

Temperature Range / Climatic Category

Operating Temperature 0 °C to + 50 °C

Storage Temperature -25 °C to + 70 °C

Climatic Category 2z/0/50/70/75% in compliance with DIN VDE 3540

Mechanical Design

Housing Made from electrically conductive plastic

Dimensions 135 x 97 x 39 mm

Weight approx. 0.25 kg with batteries