



ms1 Set AM

Portable precision instrument for measuring the relative humidity and temperature in materials, concrete walls and floors, wood, paper, textiles, cereals, coffeebeans, packings, as well as in air



Measurement range:
Humidity: 6...98%rh, not condensing
Temperature: -20...+80°C
with stick sensor enSARK-3

Accuracy: +/- 1%rh, 0.3°C
Communications: Optional RS-232 Interface

Additional function when measuring relative humidity in air
(not practicable when measuring materials):

Stored Mollier Diagram:

The ms1 also calculates and displays the dew point temperature, mixing ratio, wet bulb temperature, specific Enthalpy and partial water vapour pressure.



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Precise, fast, versatile

A practical, 1'000-times proven precision, hand-held instrument for humidity and temperature measurements. Thanks to the Novasina Electrolyte sensor it is well suited to high precision humidity measurements in a wide range of materials as well as in air. The instrument and the sensor are robust, have excellent long-term stability and are practically hysteresis-free.

The integrated computer provides a number of parameters of the Mollier hx diagram (for measuring air humidity only). The large and clear LC display is very easy to read. The instrument is battery powered, but an additional mains power supply is available to support long-term measurements. An optional RS 232 interface and supporting software is available for connecting a printer or PC.

The instrument is delivered in a sturdy plastic carrying case with space for various additional accessories.

Examples of relative humidity measurements with the **Set AM**:

- Concrete humidity during buildings construction
- Paper humidity in printing works
- Breathing capability of textiles
- Humidity in food (see also **Set AMS**)
- Humidity of air in rooms, dew point etc.

Measurement instrument ms1:

Dimensions : 54x43x265mm
Weight : 280 g
Power : 9V battery

Humidity sensor:

Electrolyte measurement cell
Range : 6...98% rh
(not condensing)
Repeatability : +/- 0.3% rh
Precision : +/- 1.0% rh
(10...95% rh, 25°C, 5 point calibration).

Temperature sensor:

Precise NTC-resistance
Range : -20...80°C
Repeatability : +/- 0.1° C
Precision : +/- 0.3° C

Humidity standards:

Sensor Checks SC:

Pure, saturated salt solutions, calibrated against national standards, available with the following values:

11%, 33%, 53%, 75%, and 90% rh.

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111 0514 -> Speisung 9V Bat.

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The Set AM is intended primarily for humidity measurements in materials, especially for determining the humidity of walls. The ms1 is a standard instrument with display of %rh, temperature, and air climate parameter computation. The system is supplied in a robust plastic case including a range of accessories. Space is available for further options, such as a power supply or interface/cable. The Set can be tested and recalibrated as required using individual Sensor Check humidity-standards.

Bestehend aus :

Carrying case with:

Measurement instrument ms1
Sensor enSARK-3, 2m cable
Sharp sensor tip
9V battery
Plastic rack for the ms1
10 external tubes with caps for measuring humidity in concrete
Sensor check SC 75% rh, with adapter ch
Polystyrene box for calibration
User manual
Manufacturers report for the 5-point calibration 11-33-53-75-90%
Weight: 2.100 kgs



111 1564 230V power supply
111 1406 115V power supply

230V or 115V power supply

The power supply is recommended when the **ms1** is used for a long period in one place, or to preserve battery power when the RS 232 interface is extensively used.

The ms1 does not recharge batteries. If rechargeable batteries are used an external charger is needed.

Power supply:

230V AC +/- 10% / 50-60Hz
115V AC +/- 5% / 50-60Hz

Output : 9 V DC / 16 mA

Power requirement: 0.4 VA

Plug : 4 mm diameter coax

Weight: 250g



111 0826 Interface PC

PC communication via RS232

RS232 interface, 1m long cable, CD with software NOVALOG32 for Win 9x/2000/NT/XP.

Interface Set comprising:

- 1m cable with D-Sub 25/25-pin
- RS-232 Interface
- CD with NOVALOG32 software for Windows systems
- User manual

Weight: 450g



111 0562 Interface Seiko

RS232 interface for Seiko printer

RS-232 interface, 1m long cable to connect a Seiko **DPU 411** thermal printer. This makes it possible to control the printer using the printer parameters defined in the **ms1** menu.

-> **The printer must be obtained locally**

Printer-Interface-Set Seiko:

Printer cable : Flat cable

- **1m long printer cable with D-Sub 25/25-pin**
- **RS 232 interface**
- **Seiko adapter box**

Weight : 300g



111 6256 Adapter 25F/9M

D-Sub adapter 25F/9M

Additional adapter for the RS232 Interface for Seiko printer (111 0562), permitting connection to the more recent Seiko **DPU 414** printer.

Adapter Interface:

Dimensions : 60 x 40 x 20 mm

Adapter D-Sub 25F/9M

25-pin female con.

9 - pin male con.

Weight: 50g



111 0661 Interface Epson

RS232 interface for Epson printer

RS-232 interface, 1m long cable to connect an Epson or other compatible 9-pin needle printer. This makes it possible to control the printer using the printer parameters defined in the **ms1** menu.

-> **The printer must be obtained locally.**

Printer-Interface-Set Epson:

Printer cable: Flat cable

- **1m long printer cable with D-Sub 25/25-pin**
- RS 232 interface
- Epson adapter

Weight: 300g