KIMO INSTRUMENTS

Technical Data Sheet

Pressure / Temperature / Humidity / Air Velocity / Airflow / Sound level

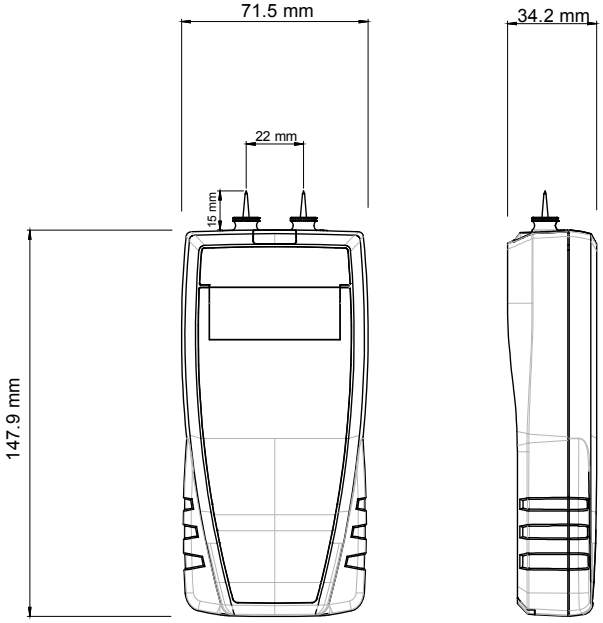
Pin moisture meter
HM 50

KEY POINTS

- Easy to use
- HOLD function
- Compatible with 4 types of materials: wood type 1, wood type 2, plaster and brick/concrete
- Auto shut-off : 20 minutes



FEATURES OF THE HOUSING



Material : ABS

Protection : IP54

Display : 1 line
LCD 1 x 5 digits.
Size : 50 x 20 mm

Height of digits :
Values : 9.2 mm
Units : 4.7 mm

Weight : 200 g (with batteries)

TECHNICAL FEATURES

Number	Material	Detail	Measuring range	Accuracy*
M1	Wood type 1	Birch, Beech, Spruce, Larch, Walnut, Cherry	From 10 to 90 %	± 1 %
M2	Wood type 2	Oak, Pine, Maple, Ash, Pin Douglas	From 9 to 90 %	± 1 %
M3	Plaster		From 0.1 to 15 %	± 1 %
M4	Brick et concrete		From 0.1 to 15 %	± 1 %

Conditions of use (°C/%RH/m)	From 0 to +50 °C. In non-condensing conditions. From 0 to 2000 m.
Storage temperature	From -20 to +80 °C
Power supply	4 batteries AAA LR03 1.5 V
Battery life	180 hours
European directives	2004/108/EC EMC ; 2006/95/EC Low Voltage ; 2011/65/EU RoHS II ; 2012/19/EU WEEE

* All the accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation

SUPPLIED WITH

Instruments are supplied with an adjustment certificate, 2 probes sets, a soft case and a protection cap.



MAINTENANCE

We carry out calibration, adjustment and maintenance of your instruments to guarantee a constant level of quality of your measurements. As part of Quality Assurance Standards, we recommend you to carry out a yearly checking.

PRECAUTIONS FOR USE

Please always use the device in accordance with its intended use and within parameters described in the technical features in order not to compromise the protection ensured by the device.

ACCESSORIES

- Calibration certificate
- Soft case
- Magnetic protective housing
- Probes set



Only the accessories supplied with the device must be used.

GUARANTEE

Instruments have 1-year guarantee for any manufacturing defect (return to our After-Sales Service required for appraisal).

USE OF THE INSTRUMENT

Take a measurement

- Switch on the instrument by pressing on **"On/Off/Hold"**.
  *The instrument displays its name **"HM50"**.*
- Press briefly on **"Select"** to move of material.
- Press the spikes in the material to be measured.
- Read the value.

When a measurement is over-range, above the maximum range, the value flashes.
Below the minimum range, the value is no more measurable and the device indicates "---", it means that for :

- Wood type 1 : the measurement is < than 10%
- Wood type 2 : the measurement is < than 9%
- Plaster, brick and concrete : the measurement is < than 0,1%



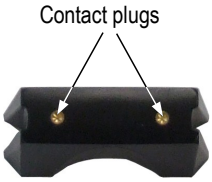
Hold the measurement

During measurement :

- Press briefly on **"On/Off/Hold"** to hold measurement.
  ***"Hold"** appears on the screen and the humidity measurement is fixed.*
- Press briefly on **"Select"** to move from one parameter to the other.
- Press again briefly on **"On/Off/Hold"** to exit the Hold function.

Perform a self-test

- Turn the instrument on.
- Remove the cap.
- Turn the cap.
- Press the 2 pins of the instrument into the contact plugs of the cap.
- Press **OK** key to select the type of material to verify.
- Read the value indicated by the instrument.
  - → If the indicated value matches with the given value in the table below, the instrument runs properly.
  - → If the indicated value does not match with the given value in the table below, clean the tips and make another self-test. If the value is always wrong, change the pins. If not working, contact the after sales service.





Resistance	Material			
	Wood type 1	Wood type 2	Plaster	Brick and concrete
1 MΩ	30.8 % ± 1%	27.5 % ± 1%	4.6 % ± 1%	5.2 % ± 1%

How to change batteries : Remove the front part at the back of the instrument. Replace used batteries by new batteries AAA LR03 1.5 V

Auto-extinction : the instrument switches off if not used during 20 minutes.

MATERIALS HUMIDITY

Wood

Moisture content	State of the wood
< 15 %	Dry
From 15 to 30 %	Moist
> 30 %	High moisture

Plaster

Moisture content	State of the plaster
< 2 %	Dry
From 2 to 4%	Moist
> 4 %	High moisture

Brick and Concrete

Moisture content	State of the brick/concrete
< 2 %	Dry
From 2 to 4 %	Moist
> 4 %	High moisture

Once returned to KIMO, required waste collection will be assured in the respect of the environment in accordance with European guidelines relating to WEEE.

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