



MESUR HAND INSTRUMENT



Combined EC, pH and temperature measuring instrument

Highlights

- Simple one hand operation and unique design
- Temperature measurement
- Exact pH and EC measurement
- EC readings are temperature-compensated
- Built-in memory to store the most recent values
- Developed for measuring under difficult conditions
- Compensates for the temperature dependence of the pH sensor
- Complete delivery with control liquids
- Available in two models - both well suited for transport

About Mesur

Mesur is a combined EC, pH and temperature measuring instrument in pocket format. Mesur is a further development of our well-known EC and pH hand instruments, and ensures an accurate measurement of EC and pH. The correct EC and pH values are essential to achieve the absolutely optimal growth conditions for flowers and vegetables.

Simple operation and unique design

Mesur has our well known distinguished and timeless design, and it has six operational buttons that operate with one click.

The buttons are placed so that the unit can be operated with one hand on the control panel at a time. When a button is suppressed, Mesur will be powered for operation. If the unit is idle for more than one minute, the unit will turn off automatically to save battery power. Mesur reliably shows conditions of low battery voltage, alerting when its battery must be replaced.

This unit is a durable instrument built to withstand a humid environment. It is suited for normal daily use in the greenhouse, nursery, or outdoor climate.

EC values are normally read to one decimal point. Mesur, however, also has the possibility to obtain readings to two decimal points for EC readings lower than 2.5 mS.

Memory

Mesur has a built-in memory to store the most recent EC, pH, and temperature values. This is especially practical when measuring under difficult conditions.

Temperature compensation

EC readings from Mesur are temperature-compensated. The unit accounts for the influence of solution temperature on the EC value and this is always shown/converted into the reference temperature. The EC value can be compared with previous measurements.



SPECIFICATIONS / MESUR HAND INSTRUMENT

Parameters

Instrument alone

Dimensions H x W x D	130 x 70 x 25 mm (5 x 2 ¾ x 12")
Weight	250 g (0.55 lb)

Instrument incl. carrying case

Dimensions H x W x D	250 x 325 x 55 mm (9 x 12 ¾ x 2")
Weight	1 kg (2.2 lb)

Electrical

EC

Measuring range	0 - 14 mS (temperature compensated)
Accuracy	±0.1 mS (5 - 30° C / 41 - 86° F)
Resolution	0.1 mS (0.02 mS optionally by EC < 2.5 mS)

pH

Measuring range	0 - 14 mS (temperature compensated)
Accuracy	±0.1 mS (5 - 30° C / 41 - 86° F)
Resolution	0.1

Temperature (liquid)

Measuring range	0 - 60° C (32 - 140° F)
Accuracy	±0.5° C (±1° F)
Resolution	0.5° C (±1° F)
Battery	9 V, type 6LR61
Working life	50 hours. Mesur has automatic indication of low battery voltage.

Sensors

EC electrode	Includes a built-in Senmatic thermistor
pH electrode	Standard combination electrode

Mesur compensates for the temperature dependence of the pH sensor. The pH measuring is therefore more exact with Mesur than with ordinary pH meters.

Calibration

Calibration of Mesur is necessary to obtain accurate readings. Calibration of the EC electrode is achieved using a buffer solution with known EC values. The pH electrode is calibrated with a control solution of pH 7.0 and with a predetermined acidic or basic calibration liquid.

Complete delivery

Control liquids for calibration of EC and pH, if applicable, are enclosed with each shipment of Mesur. Additional calibration liquids are available from Senmatic. Mesur is delivered in a practical and durable hard plastic case with sufficient space for all control liquids and sensors. The case is well suited for transport throughout the nursery or field.

Mesur is delivered in two models

Our deluxe model has EC, pH, and temperature measuring facilities. Also available is a unit measuring EC and temperature alone.

Control liquids

EC control liquid	2.00 mS ±0.02 mS at 25° C (77° F)
pH 7 control liquid	7.00 pH ±0.01 pH at 25° C (77° F)
pH 4 control liquid	4.01 pH ±0.01 pH at 25° C (77° F)

Distributor:

Penny UK Ltd

16-18 Aston Fields Road
Whitehouse Ind Estate
Preston Brook, Runcorn
WA7 3DL
01565 777029

www.pennyukltd.com

Ver. 01102019

Head office:

Senmatic A/S
Industrivej 8, 5471 Sønderød, Denmark
Phone: +45 64 89 22 11
dgtsales@senmatic.com – www.senmatic.com