



# MESUR HAND INSTRUMENT

- ✓ 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



## Combined EC, pH and temperature measuring instrument

### About Mesur

Measurement is a combined EC, pH and temperature measuring instrument in pocket format. Measurement 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
- 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.

### 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.

### Daily use of Mesur

- 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.

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

### 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.



# SPECIFICATIONS / MESUR HAND INSTRUMENT

## Parameters

<b>Instrument alone</b>	
Dimensions H x W x D	130 x 70 x 25 mm (5 x 2 ¾ x 12")
Weight	250 g (0.55 lb)
<b>Instrument incl. carrying case</b>	
Dimensions H x W x D	250 x 325 x 55 mm (9 x 12 ¾ x 2")
Weight	1 kg (2.2 lb)
<b>Electrical</b>	
<b>EC</b>	
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)
<b>PH</b>	
Measuring range	0 - 14 mS (temperature compensated)
Accuracy	±0.1 mS (5 - 30° C / 41 - 86° F)
Resolution	0.1
<b>Temperature (liquid)</b>	
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.
<b>Sensors</b>	
EC electrode	Includes a built-in Senmatic thermistor
pH electrode	Standard combination electrode

## 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.

## 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:

Ver. 07122021

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