

# Osmometer basic - The cost effective Osmometer



## Technical Data

**Sample volume:** 50 to 100  $\mu$ l

**Measuring time:** approx. 1.5 minutes (100  $\mu$ l)

**Measuring process:** Manual freezing initiation, automatic result recognition and storing

**Reproducibility:**  $\pm 0,5\%/\pm 1,5$  mosm (100  $\mu$ l),  $\pm 1\%/\pm 3$  mosm (50  $\mu$ l), greater value will be the correct one

**Measurement range:** 0 ... 2500 mosm / kg H<sub>2</sub>O

**Measurement display changeable:** (mosm / m°C / %0,9NaCl)

**Measurement memory:** 100 measurements with sample numbers, user name and cal-status

**Power supply:** 230V AC (100/115V AC on request) approx. 45 VA

**Dimensions:** Width 190 mm, height 278 mm, depth 216 mm

**Weight:** approx. 4.9 kg

The Instrument is CE labelled and WEEE conform.

## Accessories included:

50 plastic tubes, 2x10 vials of standard solution 300 and 900 mosm / kg H<sub>2</sub>O, spare thermistor, spare needle, spare fuses, little awl for cleaning needle hole, operating instructions.

## Calibration

The zero point is calibrated with distilled water and a standard point with the NaCl-solution of 300 mosm supplied. Occasional checks show that the calibration is very stable. An additional third point i.e. 900 mosm solution can be used to calibrate, whereby the linearity is raised by higher concentrations. Additionally it is possible to **modify the 2nd and 3rd calibration point** in wide limits.

## Special Features and Advantages

- Menu led operation on a wide illuminated **LCD graphic display with touch operation (view video)**.
- Selectable languages. (German, English, French, Spanish, Portuguese, Swedish, Italian).
- **Code protection (view Video)** with Log-In and user administration for **GLP-Assistance**.
- Variable 2nd and 3rd calibration points.
- Single use plastic tubes.
- Reduced operating costs as no extra water supply is necessary and power consumption is low.

## Operating of the Instrument

- Switch on instrument, wait for ready display (approx. 3 minutes). [View Video](#)
- Place 100  $\mu$ l sample in the sample tube ( $\pm 10\%$ ).
- Place the sample tube onto the measuring head.
- Lower the measuring head. The sample tube is dipped into the cooling slot.
- Enter sample number using the touch display. These entries can also be made after measurement.
- Supercooling is reached after 1 minute and the instrument gives an audible tone. The user dips the needle with ice crystals shortly into the sample and starts the freezing manually.
- As freezing point is reached, the display shows the measurement value in mosm / kg and the instrument gives an audible tone. The measurement value is stored in the memory.
- Slide measuring head from cooling slot and remove the sample tube.
- Wipe the thermistor with a soft tissue.

## System access with code protection

Access to instrument could be code protected if wanted. Mark menu point, activate protection, create user and follow instructions. With code protection you are able to prevent that every user could take control of your Osmometer or change system settings (like date/time).

**Choosing access code:** Access code could have 1 to 12 numbers. You are able to delete users and turn log-in off.

## Extra Accessories:

- Analogue output for XY-plotter
- Calibration solution 300 and 900 mosm / kg H<sub>2</sub>O

Subject to technical changes.

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