OSMOMETER

DETERMINATION OF TOTAL OSMOLALITY OF AQUEOUS LIQUIDS

TOTAL OSMOLALITY DETERMINATION OF PHYSIOLOGICAL LIQUIDS AND INFUSION SOLUTIONS

- FAST AND EASY
- SMALL AND ROBUST
- LOW COSTS
- HIGH PRECISION MEASURING HEAD

The newest freezing point Osmometer allows an easy and fast determination of the osmolality of various aqueous solutions. In addition, the freezing point depression of these samples can be measured. In combination with the robust and intelligent design, the Osmometer allows fasr and reproducible measurements. In addition, the data can optionally be exported into various formats for archival storage.



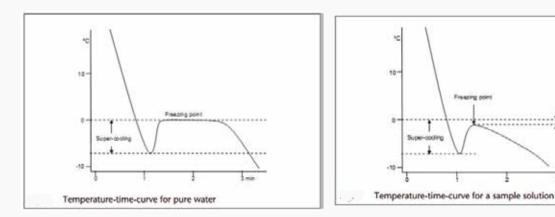
The instrument is equipped with a Peltier air cooler and an integrated microprocessor. The measuring head is available in two versions, one for glass vials and one for plastic vials with attached cap. It can be connected to a printer or directly to our Argus-RP Solution.

The Semi-Micro Osmometer measures the freezing point depression of liquid samples.

The principle of total osmolality is to determine the osmolality of body fluids such as blood (serum) and urine. This is an essential routine process in clinics and QC laboratories.

Osmolality describes the concentration of osmotic effective particles in solutions, independent from type, composition or electrical charge. The osmolality refers to the mass of the solution, meaning 1 kg of pure water.

- ° 2- or 3-point calibration
- ° Automatic storing of measurement values
- ° Air cooling
- ° Cooling process is thermistor controlled
- ° Cooling chamber will not freeze Medical applications
- ° Control of infusion solutions in pharmacies
- ° Control of iso, hyper, and hypotonic solutions
- ° Control of osmotic pressure in cell culture media for biotechnology and genetic technology



Technical Specifications

Sample volume Osmolality range Resolution	50 - 150 µl 0 - 2000 mOsmol / kg 1 mOsmol / kg
Measurement time	-2 min
Precision	SD ≤ 4 mOsmol / kg [0 - 400 mOsmol / kg], RSD ≤ 1% [400 - 2000 mOsmol / kg]
Linearity	± 1% [0 - 1500 mOsmol / kg], ± 1,5% [0 - 2000 mOsmol / kg]
Calibration	Two-point calibration (0 mOsmol / kg and one free selectable osmolality). Optional : three-point calibration (0 mOsmol / kg and two free selectable osmolalities).
Communication	
Interfaces	RS-232 port
Control	Keypad (LED display, 2 rows with 24 characters). Optional software
General	
Power supply	100 - 240 V, 50 - 60 Hz, 70 W
Ambient conditions	10 - 35°C, 20 - 80% relative humidity (non condensing)

Physical Specifications

Dimensions Weight W160 x H182 x D340 mm (W63xH71,6xD133,8') 4,5 kg (8,8 lbs)

Phone: +32 4 242 78 50 ' mail: info@elysia.be Website: www.elysia.be Address: Elysia s.a. - Centre de Recherches du Cyclotror Allée du six Août. 8 (830) - 4000 Lièze - Beleium