

Technical data sheet

Freezing-Point Osmometer

PT-O2 measures solution osmolality from freezing-point depression using a 50-100 µL sample. A motorized temperature probe and dual cooling system support laboratory testing with small sample volumes.

Key features

- 7-inch touchscreen; documented interface language: Chinese
- Motorized probe positioning and dual cooling
- Single- or multipoint calibration, up to 31 points

Technical Information

Sample volume	50-100 µL
Test time	≤100 s
Pre-cooling time	≤3 min
Measurement accuracy	±2 mOsmol/kg (≤400 mOsmol/kg); ±1% (>400 mOsmol/kg)
Repeatability (RSD)	≤1%
Operating temperature	10-30 °C
Ambient humidity	≤60%
Power supply	220 V / 50 Hz / 150 VA
Dimensions	225 × 275 × 345 mm
Weight	15 kg

Standard Configuration

Base osmometer with motorized probe and dual cooling. The documented PT-O2 configuration does not include audit trail functionality.

Specified linearity is at most 1%. The recommended ambient temperature is 15-25 °C within the 10-30 °C operating range. The cooling system does not require heat-transfer liquid. Osmolality, freezing point and concentration ratio can be displayed together. Confirm the measurement range and display resolution with their complete units before selecting the instrument.

Optional Accessories

Confirm sample tubes, calibration solutions and required interface language before ordering. An audit-trail requirement needs a separately verified configuration.

Applications

Osmolality testing of compatible solutions in pharmaceutical, biological and food laboratories.

Selection / Ordering Information

Confirm sample compatibility, configuration, electrical supply and required documentation in the quotation.

Review the configuration with PRECETTA before ordering.