



## OSM-1T, Osmometer

OSM-1T is a single-sample automatic osmometer for the rapid determination of the cryoscopic point variation (osmolality) in biological fluids, pharmaceutical samples and other solutions.

This next generation osmometer includes a lot of useful features that the most recent technology allows: a full colour 7" touchscreen display, real-time visualization of the freezing curve, stable memory for more than 4,000 results, a PC software for data handling, USB ports for downloading all data to a pen drive, updating the firmware and connecting an optional barcode/QR-code reader, and much more. In particular, all OSM model are designed with characteristics in compliance with FDA norm 21 CFR Part 11, such as the Audit Trail, the set up of two different password levels, results including date, hour and username, without any possibility to modify them.

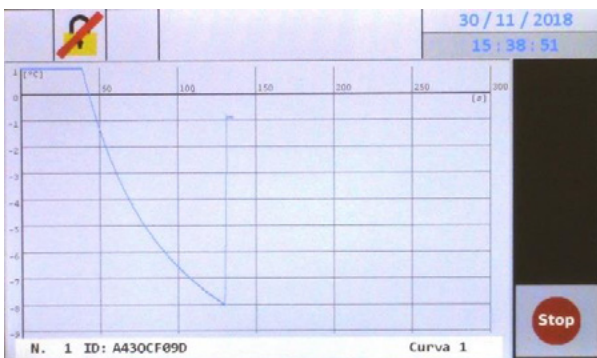
Compact and sturdy, OSM-1T can work with room temperatures up to 36°C. It is perfect for pharmaceutical/cosmetic/homeopathic applications and for uses in hospitals and R&D laboratories. Excellent for analysis of semiviscous samples.

### New functions for great advantages:

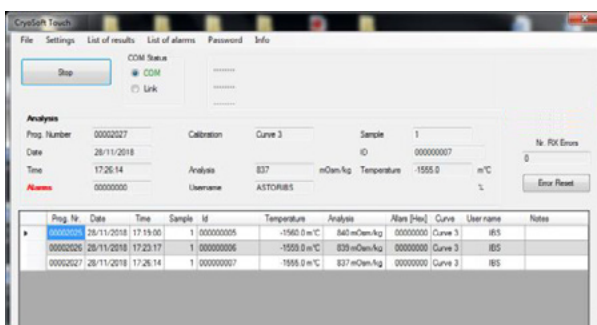
- Real-time graph of the sample temperature during each analysis
- Real-time graph of sample freezing point - OSM Osmometers
- A 20-digit alphanumeric ID code can be added to each sample, easily
- Optional USB barcode and QR-code reader for a quick sample identification
- Results shown in different colours for a quick identification of anomalies or critical values
- Features in compliance with the FDA norm 21 CFR Part 11: Audit Trail, set up of two different password levels (administrator and user), users' passwords obscured by "\*\*\*\*", results with date, hour and username (electronic signature) and unmodifiable results to avoid any fraud
- Stable memory for 3 different calibration curves based on the favorite analytical ranges
- Stable memory for up to 4,000 results
- Easy download of test results to a USB pen drive
- Easy firmware updates by means of a USB pen drive
- Real time PC monitoring or quick download of test results to a PC thanks to Touch data handling software
- Immediate visualization of error messages.

### Technical characteristics:

- Sample capacity: single sample
- Full colour 7" touchscreen display
- Bath with Peltier cells controlled by software
- Automatic calibration
- Lash and agitation width controlled by software
- 2 x USB ports for data downloading to a pen drive, updating the firmware and connecting an optional barcode/QR-code reader
- 2 x RS232 ports for connecting an optional thermal printer and a PC.



Real-time graph of the cryoscopic point measurement



Screenshot from the new software CryoSoft Touch

Model	OSM-1T
Operating room temperature	+5°C to 36°C
Sample volume	50 to 200 µl
Analysis duration	About 2-3 minutes/sample (from 0 to 900 mOsm/Kg)
Warm up time	About 5 minutes
Analytical range	0 to 3,000 mOsm/Kg
Resolution	1 mOsm/Kg
Repeatability & reproducibility	±2.5 mOsm/Kg (from 0 to 600 mOsm/Kg) or ±0.5% of the value (from 600 to 3,000 mOsm/Kg)
Power absorption	max. 150W
Dimensions	W285xD485xH360 mm (head down)
Net weight	16.1 Kg