

OsmoTouch 1 - The Next-Gen osmometer

Professional analysis of osmolality in pharma and biological fluids



OsmoTouch 1 is a single-sample automatic osmometer for the rapid determination of the osmolality in biological fluids, pharmaceutical samples and other solutions by means of the cryoscopic point variation.

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, a USB port for downloading all data to a pen drive and much more. In particular, all OsmoTouch model are designed with characteristics in compliance with FDA norm 21 CFR Part 11, such as the set up of two different password levels, results including date, hour and username, without any possibility to modify them.

Compact and sturdy, OsmoTouch 1 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
- An alphanumeric ID code can be added to each sample, easily
- Optional barcode 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:** set up of 2 different password levels (*administrator and user*), 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
- Real time PC monitoring or quick download of test results to a PC thanks to CryoSoft Touch data handling software
- Immediate visualization of error messages

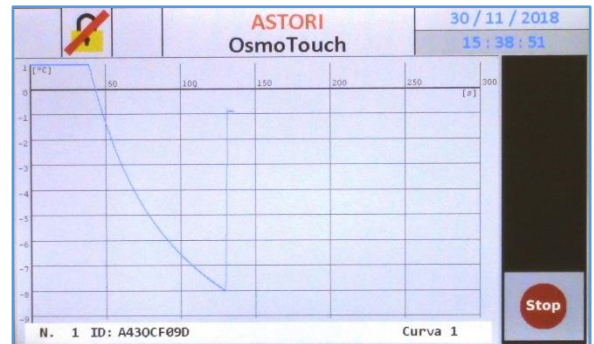


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Technical characteristics:

- ❖ Sample capacity: single sample
- ❖ Full colour 7" touchscreen display
- ❖ Bath with Peltier cells controlled by software
- ❖ Operating room temperature: +5°C to 36°C
- ❖ Automatic calibration
- ❖ Lash and agitation width controlled by software
- ❖ Sample volume: from 50 to 200 µL
- ❖ Test duration: about 2-3 minutes/sample (from 0 to 900 mOsm/Kg)
- ❖ Warm up time: about 5 minutes
- ❖ Analytical range: from 0 to 3,000 mOsm/Kg
- ❖ Resolution: 1 mOsm/Kg
- ❖ Repeatability and reproducibility: ± 2.5 mOsm/Kg (from 0 to 600 mOsm/Kg) or $\pm 0.5\%$ of the value (from 600 to 3,000 mOsm/Kg)
- ❖ USB port for data downloading to a pen drive
- ❖ 2 x RS232 ports for connecting an optional thermal printer and a PC
- ❖ An additional RS232 port can be added for connecting an optional barcode reader (to be requested when ordering)
- ❖ Power absorption: max. 150 W
- ❖ Size: 285x485x360 mm (wxdxh, head down)
- ❖ Net weight: 16.1 Kg



Real-time graph of the cryoscopic point measurement

The screenshot shows the CryoSoft Touch software interface. It displays a table of analysis results with columns for Prog. No., Date, Time, Sample ID, Temperature, Analysis, Alias (Hex), Curve, User name, and Notes. The table contains three rows of data, with the first row highlighted in blue. The software also shows a 'Stop' button, a 'COM Status' section, and a 'List of results' section.

Prog. No.	Date	Time	Sample ID	Temperature	Analysis	Alias (Hex)	Curve	User name	Notes
00002027	28/11/2018	17:26:14	1 000000007	-1555.0 m°C	837 mOsm/Kg	00000000	Curve 3	ASTORIBS	
00002028	28/11/2018	17:23:17	1 000000006	-1559.0 m°C	839 mOsm/Kg	00000000	Curve 3	ASTORIBS	
00002029	28/11/2018	17:19:00	1 000000005	-1560.0 m°C	840 mOsm/Kg	00000000	Curve 3	ASTORIBS	

Screenshot from the new software CryoSoft Touch

Manufactured by:

ASTORI s.r.l.

Prodotti e strumenti di qualità per il laboratorio

Via Stelle, 11 - 25020 Poncarale (BS) - Italy
Tel.: +39 030 2540240 - Fax: +39 030 2640812

www.astorilab.com - info@astorioscar.com
www.facebook.com/AstoriTecnica/
www.instagram.com/astori_tecnica