OsmoTouch 20 - The Next-Gen Osmometer

Professional analysis of osmolality in pharma and biological fluids



OsmoTouch 20 is a a 20-sample carousel-based 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, its new version has added a new graphic interface, the possibility to create custom test reports and features in compliance to FDA CFR 21 Part 11 norm and GLP. Furthermore, its Ethernet (LAN) port for a remote diagnosis and the direct connection to a LIMS is a useful and powerful tool to improve the laboratory data flow and minimize all possible downtimes.

Compact and sturdy, OsmoTouch 20 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 including gels based on hyaluronic acid.

New functions for great advantages:



- **New graphic interface**: very high touch-screen resolution and highly user-friendly firmware
- Real-time graph of the sample temperature during each analysis
- A 20-digit alphanumeric ID code can be added to each sample
- Results shown in different colours for a quick identification of anomalies or critical values
- **Features in compliance with FDA CFR 21 Part 11**: Audit Trail, more password levels, electronic signatures, downloadable test results in encrypted mode on the provided PC software in unmodifiable PDF files
- Creation of customized test reports with user's logo and data
- **New and easy calibration procedure**: automatic calculation of the repeatability of the calibration standards, acceptance of their values and saving of the curve
- Stable memory for 3 different calibration curves based on the favorite analytical ranges

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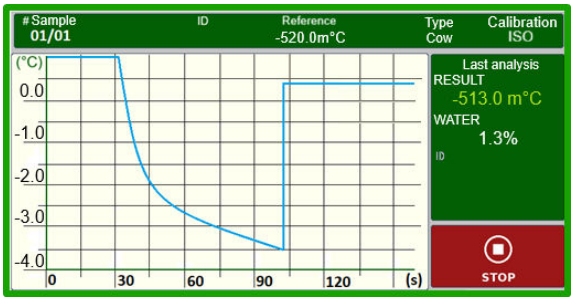
More new functions for great advantages:

- Stable memory for up to 4,000 results
- Easy download of test results and firmware updates through a USB pen drive
- **New Ethernet (LAN) port** for the remote software updates and remote diagnosis of every technical issue, with consequent reduced downtimes
- Direct connection to a LIMS
- 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
- Optional QR/barcode USB reader for a quick sample identification
- An optional thermal or common paper printer is also available



Technical characteristics:

- Sample capacity: up to 20 samples
- Full colour 7" touchscreen display
- Bath with Peltier cells controlled by software
- Operating room temperature: +5°C to 36°C
- Sample volume: from 50 to 200 µL
- Test duration: about 2-3 minutes/sample *(from 0 to 900 mOsm/Kg)*
- Warm-up time of the equipment: 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 ±0.5% of the value *(from 600 to 3,000 mOsm/Kg)*
- 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
- Ethernet (LAN) port for remote connection and updates
- Power: max. 150 W - Dimensions and weight: 285x485x360 mm *(wxdxh, head down)*; 17.4 Kg



Real-time graph of the cryoscopic point measurement

ASTORI s.r.l.

Prodotti e strumenti di qualità per il laboratorio

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