

OSM-3020

OSMOMETER



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Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

Freezing point osmotic pressure gauge OSM3020 produced by our company with independent research and development is in accordance with Raoul freezing point theory, based on the solution freezing point declined value proportional to the solution molar concentration, using high sensitivity of temperature -sensing element, to measure the freezing point of different solutions, so as to derive the osmotic pressure molar concentration in the fields such as pharmaceutical analysis, biological and food therapy.

▶▶ Main Features

- Humanized design, 7-inch color touch screen, easy and quick operation.
- It has the functions of electronic signature and user classification management, to satisfy CFR PART21 store data query according to time which can store 3 years of testing data.

It can carry on single-point or multi-point (31-point) linear calibration, to ensure that instrument has the detection accuracy of each range interval in stability.

- Temperature probe adopts the screw linear guide motor design, so that the operation just on a touch screen can complete the whole test process.
- It is equipped with high precision sensor, which has high measuring accuracy and good reproducibility.
- It adopts double refrigeration system, with a short precooling time, fast detection speed, to facilitate continuous detection.
- A small amount of test sample can meet the demand in different areas.
- It can simultaneously display the osmotic pressure molar concentration ratio.
- The cooling system adopts the a thermal transfer fluid design, to exempt from frequent maintenance.
- Built-in pharmacopoeia hundreds of injectable drug name can facilitate the preset information of test sample.

Technical Parameters

Model	OSM3020
Measurement range	0-2000 mOsmol/kg
Resolution ratio	0.1
Sample amount	100uL
Testing duration	< 3min
Pre-cooling time	< 3min
Measurement error	< 1%
Repeatability	< 1%
Linearity	< 1%
Environment temperature	0-30°C Recommended for 15-25°C
Environment humidity	< 60%
Power supply	220V ~ 50Hz 150VA
Overall dimensions	221*346 (mm)
Weight	16kg

Preparation of standard solution

According to the mmol osmotic pressure molar concentration in weight for each standard solution as shown in Table 1, weigh the amount of sodium chloride, which is dried at the temperature of 500~650°C for 40-50 minutes and placed in the dryer and cooled down to the room temperature, and place such sodium chloride in the measuring flask containing 100g of water, and then shake up.



Freezing-point osmometer standard solution mOsmol /kg water	Weight of sodium chloride G	Decrease value of freezing point at (°C)
100	0.3087	0.1858
200	0.6260	0.3716
300	0.9463	0.5574
400	1.2684	0.7432
500	1.5916	0.9290
600	1.9147	1.1148
700	2.2380	1.3006
750	2.398	1.3935
1000	3.223	1.8580

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HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

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Our Products & Technologies



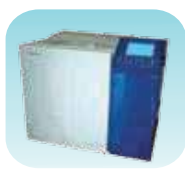
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Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



PCR/Gradient PCR/
RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

Regulatory compliances



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Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



Analytical
Foundation

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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

Reach us @



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