

ADVANCED® 2020 MULTI-SAMPLE OSMOMETER

PROVEN RESULTS WITH SIMPLE, FLEXIBLE OPERATION

The Advanced® 2020 Multi-Sample Osmometer provides extremely accurate osmolality measurements in clinical, industrial, and research settings. These results are obtained by using the industry-preferred freezing-point method, which determines total concentration. Only the model 2020 Osmometer offers on-board data management, automated sample handling, and flexible reporting options for seamless instrument operation.

Other features such as statistical analysis, multi-language capability, and automated calibration make the Advanced 2020 the model of choice in laboratories around the world.

Applications:

- Clinical Medicine
- Medical Research
- IVD Test Development
- Bio-Processor Control
- Bio-Pharmaceutical Monitoring
- Exercise Physiology and Athletic Conditioning

ADVANCED® FREEZING-POINT OSMOMETERS
THE BRAND OF CHOICE FOR
OSMOLALITY TESTING™

Maximize Productivity

The Advanced 2020 Multi-Sample Osmometer tests up to 20 samples without supervision, allowing your personnel to concentrate on other responsibilities.

Optimal Sample Size

Requiring only a 20 µL sample, the Advanced 2020 offers the smallest sample volume of any freezing-point osmometer currently available.

Automatic Calibration

No fine-tuning or user adjustments are needed during calibration. The instrument's microprocessor automatically makes calibration adjustments at the push of a button.

Stat Capability

A test sequence can be interrupted to run a stat test without affecting the workflow.

Flexible Reporting Options

The 2020 offers a full range of data handling capabilities with an on-board printer and connects easily to an external printer, computer, and barcode scanner. Instrument memory allows electronic storage and retrieval of up to 200 test results.

Multi-Language Capability

Optional languages include: English, Danish, French, German, Italian, Portuguese, Spanish, and Swedish.

Worldwide Support

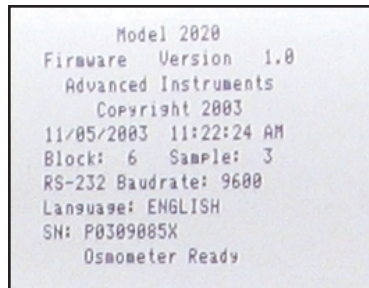
Advanced Instruments Hot-Line® Service and worldwide distributor network provide comprehensive customer service and technical support 24/7.



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Osmometry, a measurement of osmolality by the freezing-point method, is an important diagnostic method used in hospital, pharmaceutical, and environmental industries.



Minimize transcription errors with the 2020 on-board printer. Capture date, time, and results while supporting HIPAA guidelines for patient privacy.



The 2020 optional barcode scanner attaches to the instrument, providing positive sample identification and minimizing transcription errors.

Other osmometers available:

Advanced Model 3250 Single-Sample Osmometer

Advanced Model 3900 Multi-Sample Osmometer

Advanced Model 3300 Micro-Sample Osmometer

Advanced Instruments also supplies ControLine™ products for osmometers. For more information, please contact Advanced Instruments or your local distributor.

Available from:

Model 2020 Multi-Sample Osmometer Specifications

Sample Volume	20 µL
Test Time	90 seconds per sample typical
Sample Throughput	35 to 40 per hour
Sample Capacity	Up to 20 samples
Units	mOsm/kg H ₂ O
Resolution	1 mOsm/kg H ₂ O
Range	0 to 2000 mOsm/kg H ₂ O
Communications	On-board printer, DTE RS-232 serial port, and optional barcode scanner

Performance at Reference Conditions¹

Linearity	Less than ±1% from a straight line between 0 and 850 mOsm/kg H ₂ O; Less than ±1.5% above 850 mOsm/kg H ₂ O
Repeatability	± 3 mOsm/kg H ₂ O (1 S.D.) between 0 and 400 mOsm/kg H ₂ O; ± 0.75% (1 S.D.) between 400 and 2000 mOsm/kg H ₂ O
Drift	Less than 1 mOsm/kg H ₂ O per month

Performance Over Operating Conditions

Temperature Effects	Less than 1 mOsm/kg H ₂ O per 5°C (9°F) ambient temperature change
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Operating Conditions

Temperature	18 to 35°C (64 to 95°F)
Humidity	30 to 80% relative humidity, (non-condensing)
Storage Temperature	-40 to +45°C (-40 to +113°F)
Electrical	
Voltage	100 to 240 VAC (50/60 Hz)
Power Consumption	80 Watts

Dimensions	11.4" H x 16.0" W x 12.2" D (29.0 cm x 40.6 cm x 31.0 cm)
Net Weight	22.0 lbs. (10.0 kg)
Shipping Weight	34.0 lbs. (15.5 kg)
Warranty	One year limited warranty on workmanship and all parts except glass, plastic, and parts warranted by their makers

Certification



¹Reference Conditions 20 to 25°C (68 to 77°F); 40 to 60% relative humidity; tolerances of reference or calibration solutions excluded

Specifications subject to change

Hot-Line® Technical Service
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For more information on Advanced Instruments family of tests, please call 800-225-4034.



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