

eravisc X

VISCOSITY & DENSITY TESTING

THE NEXT ERA



# eravisc X Xtra Easy Xtra Rugged Xtra Accurate

eravisc X is the world's smallest and most rugged kinematic viscometer with lab-grade precision meeting ASTM D445 and ASTM D7042. Its revolutionary viscosity cell is combined with **eralytics** unique x-oscillating metal U-tube density cell. This allows an independent high-precision density measurement in full compliance with ASTM D4052 and ISO 12185.

  
THE NEXT ERA

## Xtra ACCURATE

eravisc X's revolutionary capillary measuring cell is a real game changer for high-precision kinematic viscosity testing at any temperature between 15 °C and 100 °C. Latest Peltier Technology allows for the automated, high-speed viscosity index measurement. **eralytics** unique FillingProof™ solution detects even smallest bubbles, ensuring maximum density accuracy.

## Xtra COMPACT

eravisc X is the analyzer with the smallest footprint on the market, still offering maximum ease of use and operator convenience. The compact dimensions and lightweight instrument design offer true portability on-site and require minimum bench space in the lab.

## Xtra FAST & EASY

The fully automated measurement of the kinematic viscosity at 40 °C or at 100 °C takes only 1 minute. Results are displayed on the large color touchscreen and can be printed, exported via USB or directly transferred to a PC or LIMS via Ethernet connection.

With its unique sample introduction from the top eravisc X is equally easy to operate for right-handed and left-handed persons.

## Xtra RUGGED

eravisc X is built in a corrosion-resistant aluminum housing. Its robustness and reliability make it the ideal solution for daily viscosity measurements in the laboratory as well as directly in the field to immediately prove specification or detect contamination, and oil degradation.

eravisc X is the perfect solution for highly accurate testing even under extreme conditions.

eravisc X allows for the independent measurements of viscosity and density enabling the simultaneous determination of both values at different temperatures.

**eralytics** unique, dynamic capillary viscosity measurement method determines the flow time of the sample as a function of a rapidly measured pressure. This patented principle combines the advantages of traditional capillary methods with the speed and ease of use of **eralytics** instruments.

2 in 1: Viscosity & Density

# Technical Specifications of eravisc X

Available Test Methods	Viscosity: Correlation to ASTM D445, D7042, ISO 3104, ISO 23581 Density: ASTM D4052, D5002, ISO 12185
Special Operation Modes	Viscosity Index (40 °C & 100 °C) Simultaneous Viscosity & Density testing at independent temperatures
Measuring Range	Viscosity: 1 - 1000 mm <sup>2</sup> /s   Density: 0 - 3 g/cm <sup>3</sup>
Temperature Range	Viscosity: 15 °C to 100 °C (59 °F to 212 °F)   Density: 0 °C to 100 °C (32 °F to 212 °F)
Accuracy*	Viscosity: 0.8 %   Density: 0.00005 g/cm <sup>3</sup>
Repeatability (SD)*	Viscosity: 0.25 %   Density: 0.000005 g/cm <sup>3</sup>
Resolution	Viscosity: 0.01 mm <sup>2</sup> /s   Density: 0.00001 g/cm <sup>3</sup>
Temperature Accuracy	0.02 °C (0.04 °F)
Measurement Time	1 minute
Sample Volume	3 mL
Bubble Detection	FillingProof™ - automated bubble detection and bubble quantification (Patent: US 11,493,417 B2)
Special Features	Integrated fully-automated drying pump, built-in ambient pressure sensor
Result Database	Over 100 000 detailed test reports stored
Remote Control	Remote service capability via Ethernet
PC Software	erasoft OCM Software: supports the operator in the management, operation and maintenance of technical OCM facilities
Interfaces	Built-in PC with Ethernet, 4 x front and rear USB, and RS232 interfaces, Wi-Fi via USB dongle Direct LIMS connectivity via LAN, output to printer or PC, and export as CSV or PDF Optional input by keyboard, mouse, and barcode reader
Display	Industry proven 8.4" multilingual color touchscreen
Power Requirements	85 - 264 V, AC 47 - 63 Hz, max 150 W
Operating Conditions	5 °C - 45 °C up to 90 % rel. humidity (non-condensing)
Dimensions / Weight (W x D x H)	18.0 x 28.6 x 29.3 cm (7.1 x 11.2 x 11.5 in) / 7.2 kg (15.9 lb)

\* Typical values, depending on sample type and temperature and without consideration of the particular uncertainties of reference materials (CRM).

Due to continuing product development, specifications are subject to change.

All eralytics products are manufactured under ISO 9001 regulations and are CE, ROHS and UL/CSA compliant. [www.eralytics.com/eravisc-x](http://www.eralytics.com/eravisc-x)



eralytics instruments are available worldwide.  
An international network of over 50 authorized and well-trained distributors  
is ready to answer your inquiries and to offer local support and service.  
[www.eralytics.com/distribution](http://www.eralytics.com/distribution)

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