

eralytics<sup>o</sup> trusted solutions.  
re-imagined.

THE NEXT ERA

eradens X

DENSITY TESTING



# eradens X

## Xtra Easy

## Xtra Rugged

## Xtra Accurate

**ERADENS X** is the world's smallest and lightest high-precision density meter measuring in full compliance with ASTM D4052 and ISO 12185. Its revolutionary vertically aligned x-oscillating metal U-tube design is extremely reliable and insensitive to toughest ambient conditions, making **ERADENS X** the perfect solution for density testing in stationary as well as in mobile laboratories.



### Xtra ACCURATE

With the x-oscillating metal U-tube technology inside, **ERADENS X** provides density results with 5-digit precision. **eralytics** unique full range viscosity correction ensures that the highest possible accuracy is achieved over the wide temperature range of 0 - 100 °C.

### Xtra COMPACT

**ERADENS 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 EASY

The large industry-proven color touchscreen with its intuitive user interface design makes your daily measurement routine highly efficient and keeps operation easy, even with gloves on.

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

Results are displayed on the large touch screen and can be printed, exported via USB or directly transferred to a PC or LIMS via ethernet connection.

### Xtra RUGGED

**ERADENS X** is built in a corrosion-resistant aluminum housing and has no moving parts. The revolutionary design featuring a vertically aligned x-oscillating metal U-tube makes **ERADENS X** an extremely robust and versatile analyzer that is unaffected by shocks and vibrations.

It is therefore the perfect solution for highly accurate testing even under extreme conditions.

The vertical alignment of the U-tube minimizes the probability of air bubbles getting trapped inside the density cell. For the verification of the bubble free filling, **eralytics** has developed FillingProof™.

In contrast to error-prone optical methods, the change in the density as a function of applied pressure is used to detect even smallest bubbles providing reliable results also for non-transparent samples such as crude oil.

FillingProof™ Technology



# Technical Specifications of eradens X

Standard	ASTM D4052, D5002, ISO 12185
Density Range	0 - 3 g/cm <sup>3</sup>
Temperature Range	0 °C to 100 °C (32 °F to 212 °F)
Density Accuracy	0.00005 g/cm <sup>3</sup>
Density Repeatability (SD)	0.000005 g/cm <sup>3</sup> (according to ISO 5725)
Density Resolution	0.00001 g/cm <sup>3</sup>
Temperature Accuracy	0.02 °C (0.04 °F)
Pressure Range	0 - 10 bar (145 psi) absolute pressure
Measurement Time	15 sec (after temperature equilibration)
Sample Volume	2 mL
Oscillating Tube	Hastelloy
Bubble Detection*	FillingProof™ - automated bubble detection and bubble quantification
Viscosity Correction*	yes - full range correction
Tables & Functions	API, specific gravity, sugar, alcohol, etc, and freely programmable tables
Special Features	Integrated fully-automated drying pump, built-in ambient pressure sensor
Result Database	Over 100 000 detailed test reports stored
Remote Service	Remote service capability via Ethernet
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 = 15,7 x 28,5 x 28,9 cm (6.2 x 11.2 x 11.4 in); 7 kg (15 lb)

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](http://www.eralytics.com)

\* patent granted



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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