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THE NEXT ERA

erachek X

OIL-IN-WATER TESTING



# eracheck X

## The portable oil-in-water tester

eracheck X, the newest portable oil-in-water tester is easy to use, providing results within 5 minutes. eracheck X is fully compliant with the latest IR oil-in-water standard ASTM D8193 measuring TOG, TPH and FOG in water with sub-ppm precision. Its rugged design, with a small footprint, makes it suitable for fast on-site compliance testing even under extreme conditions.



### Xtra FAST & EASY

The simplified extraction procedure is performed in a few steps, requiring minimum glassware and easy cleaning. The fully automated measurement of the extract takes only 2 minutes. Results are displayed on the large full-color touch screen and can be exported via USB directly to a flash drive or PC for LIMS.

### Xtra ACCURATE

eracheck X is a high-end dual-beam non-dispersive IR spectrometer for the highly accurate measurement of oil-in-water. Based on the in-expensive and environmentally friendly CFC-free solvent, cyclohexane, it measures in full compliance with ASTM D8193, offering excellent correlation to EPA 1664, ISO 9377-2, and OSPAR.

Unlike gravimetric methods, ASTM D8193 does not require the evaporation of the solvent, eliminating the risk of light ends getting lost during the measurements. This leads to a significantly better accuracy and precision ( $r = 0.25 \text{ mg/L}$ ) over a wide measuring range (0 – 3000 mg/L).

### Xtra RUGGED

eracheck X is built in a corrosion resistant aluminum housing and has no moving parts. Its ruggedness and reliability make it the ideal solution in tough ambient conditions for the daily work on oil drilling platforms and as a portable field tester for wastewater professionals.

### Xtra COMPACT

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

eracheck X is factory calibrated according to ASTM D8193 and offers preinstalled TOG & FOG calibrations for excellent correlation to the gravimetric method EPA 1664 as well as to the OSPAR GC method. Additionally, eracheck X's easy-to-operate design and its intuitive software make user-specific calibrations or correlations an easy task.

User-specific Calibrations

# Technical Specifications of eracheck X

Standard	ASTM D8193
Correlation to	EPA 1664, ASTM D7066, D7678, OSPAR, ISO 9377-2
Extraction Solvent	Cyclohexane or Tetrachloroethylene
Applications	TOG (Total Oil and Grease) TPH (Total Petroleum Hydrocarbon) FOG (Fats, Oil and Grease in wastewater)
Sample Volume	200 mL water and 15 mL cyclohexane
Measurement Time	5 min including extraction
Measurement Range	0 - 3000 mg/L oil-in-water Over 1000 mg/L: water:solvent = 250 mL:45 mL
Repeatability (SD)	0 - 50 mg/L: 0.25 mg/L (900:50 mL H <sub>2</sub> O:solvent) 0 - 50 mg/L: 0.34 mg/L (200:15 mL H <sub>2</sub> O:solvent)
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
Security	User-specific calibrations and password protection
Display	Industry proven 8.4" multilingual color touchscreen
Power Requirements	85-264 V, AC 47 - 63 Hz, max 150 W Field-Application: 12 V DC
Dimensions	W x D x H = 18.0 x 28.6 x 29.3 cm (7.1 x 11.2 x 11.5 in)
Weight	6.7 kg (14.8 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/eracheck-x](http://www.eralytics.com/eracheck-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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