eralytics

ERACHECK

Total oil and grease in water by QCL-IR technology

ERACHECK

The ERACHECK is the ultimate solution for the fast and easy measurement of sub-ppm concentrations of oil and grease and total petroleum hydrocarbons in waste water in the lab as well as in the field. The innovative measuring technology is based on the highly precise QCL-IR (Quantum Cascade Laser Infra-Red) technology.

The ERACHECK is a compact stand-alone analyzer that comes in a modern, portable and rugged design.
The innovative measuring procedure is based on two patented technologies:

- Safe, simple and environment-friendly extraction procedure with the non hazardous and low cost solvent cyclohexane
- Innovative quantum cascade laser infra-red (QCL-IR) measuring technology for maximum precision

Latest communication technology, like a large color touch screen and a built-in industry-PC with Ethernet and USB interfaces, allows for advanced data management by connecting PCs, modern printers, external keyboards, barcode readers, etc. or by the integration into LIM systems.

The ERACHECK offers large data point memory storage and password security to protect data from accidental deletion. Data can be saved into a memory stick and documented in popular PC worksheet formats for further data analysis. Connected to the internet, remote instrument diagnosis and immediate load of latest firmware and software are easily possible.

Features

- Measurement of total hydrocarbons in water as well as in soil
- High precision QCL-IR technology
- Safe and low cost extraction with non-polluting cyclohexane
- Maximum precision in sub-ppm range
- Pushbutton simplicity
- Portable and rugged stand alone design
- Ideal for site screening

Applications

- Monitoring the wastewater discharge of oil depots, refineries, offshore rigs, etc.
- Monitoring the efficiency of oil/water separation processes
- Surveying water and soil quality and hazardous waste sites

Technical Data

- Excellent correlation to ASTM D3921 and D7066
- Wide measuring range: 0.5 to 1000 ppm
- Precision: repeatability < 1 ppm
- Measuring time: 2 minutes
- Extraction time: 5 minutes
- Sample volume: 4 ml
- Extraction:12 ml cyclohexane for 250 ml waste water
- Interfaces: Ethernet, 4 x USB, 1 x RS323, Audio in/out
- Power requirements: 85-264 V AC, 47-63 Hz, 120 W (built-in multi-voltage power supply)
- Field application: optional power converter for 12 V/9A DC (vehicle battery) operation
- W x H x D: 220 x 320 x 280 mm (8.7 x 12.6 x 11 inch)
- Weight: 8 kg

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