

aquamax KF

Portable

on-site ppm water content

Product Description

Measuring and controlling the amount of water in oils and fuels is of considerable economic importance to the industrial community, particularly to the petroleum, fuel, used oils and electric power industries.

Water content determination by Karl Fischer titration is no longer restricted to being used by a chemist in a laboratory – now the technique is used by, plant operators, tanker drivers, distribution/maintenance engineers and other non-laboratory personnel.

Karl Fischer titrations can now be performed in many different locations such as the tailgate of trucks, mobile laboratories, offshore installations, tankers, engineering workshops and dockside cabins.

The Aquamax KF Portable is simply a mobile version of the very successful Aquamax KF Plus.



Built in battery and built in printer for on-site use



The Aquamax KF Portable is a small, single foot print instrument with integrated printer, a built-in battery and carrying case allowing the field engineer to take the instrument complete with an assembled measuring vessel and ready for immediate use on arrival at destination.

Rugged case and tough measuring vessel make a real mobile Karl Fischer titrator

Water Check



Water check button and syringe

The ug check button allows the operator to simply press go, inject 1ul or maybe 10ul of distilled water (as required by some ASTM methods) and verify if the instrument and reagent are working with in their required specification. The ug check overrides the programmed calculation and displays/prints out a report of the verification check. The coulometer then automatically reverts back to the pre-programmed setting.

Tough measuring vessel

The unique LDC glassware design is by far the easiest to use and also the most robust. The electrode locking system allows the joints to seal completely, without the use of grease or PTFE sleeves, and provides improved baseline stability. Hassle free assembly and disassembly.

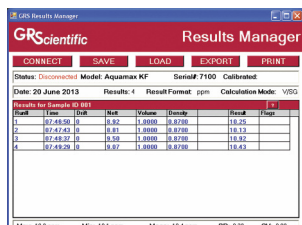


Features

- Simple operation
- 10 user programmable methods
- 1ppm / 100%
- Results in ppm, mg/kg, % & µg water
- Multi language display & print out
- Small footprint
- Integral high speed printer
- Integral battery
- Fully portable
- Low drift cell design
- Results Manager software
- Automatically compensated errors (patented technique)

Results Manager

This is a windows application that allows you to view and print sets of results created by the Aquamax KF Titrator. It can download results directly from the instrument via a serial port connection, or open result files previously saved to disk. The Results Manager package contains all necessary cables, connections, installation cd and user manual.



Run	Time	Date	Salt	Volume	Density	Titration	Flag
1	07:48:08	18	0.81	1.0000	0.8720	10.25	
2	07:47:43	18	0.81	1.0000	0.8720	10.13	
3	07:48:37	18	0.82	1.0000	0.8720	10.22	
4	07:48:26	18	0.82	1.0000	0.8720	10.21	

Max: 10.9 ppm Min: 10.1 ppm Mean: 10.4 ppm SD: 0.36 CV: 2.88



For those who need to use the titrator outside of the laboratory, the removable flash drive (memory stick) will store all the results whilst you complete your on-site work. The USB flash drive can then be connected to a pc and results downloaded via Results Manager when returning to your work place.

Homogenizers

To conform to ASTM, API, etc, methodologies, it is necessary to homogenise crude oil samples prior to analysis.

The PRO25D is a powerful and versatile low cost digital homogenizer whilst the SB-1 model is a Silent Brushless Homogenizer which is maintenance free as it has no carbon brushes, so it runs cleaner and quieter.

- PRO25D Digital Homogenizer, with stand
- SB-1 Silent Brushless Homogenizer, with stand
- Saw Tooth Generator Probe

Certificates

All Aquamax KF Coulometric titrators are supplied with a calibration certificate traceable to national standards.

For additional technical information, specifications, MSDS data, user manuals, and exhibition news, email us at info@echscientific.com

Technical Specifications

of Aquamax KF Portable - Part No: 90.18.0002

Titration Method: Coulometric Karl Fischer titration

Electrolysis Control: Patented "ACE" control system
GB2370641

End Point Detection: AC polarisation

End point indication: Visual display/print out/acoustic beep

Titration vessel: Low Drift Cell design, no grease or PTFE sleeves required

Measuring range: Possible 1µg - 200mg water
Typical 1µg - 10mg water

Moisture range: 1ppm - 100% water

Max. sensitivity: 0.1µg

Max. titration speed: 2.24 mg per minute

Max. current: 400 ma

Drift compensation: Automatically controlled

Precision: 10-100µg ± 3µg, 100µg-1mg ±3µg, above 1mg ±0.3%

Start delay time: 0-30 minutes, user selectable

End delay time: 0-30 minutes, user selectable

Calculation modes: Weight/weight, (W/w) (user programmable)
Weight/dilution ratio, (W/K)
Volume/density, (V/S/G)
Volume/volume, (V/v)

Display format: µg, mg/kg, ppm, %

Print format: µg, mg/kg, ppm, %

Statistics: max, mean, min values up to 99 runs

Method storage: 10 user programmable methods

Sample ID number: User programmable

Stirrer speed: Microprocessor controlled

Languages: Multi languages – user selectable

Calendar/clock: Analysis time & date print out

Battery low indicator: Display & print out indication

Data outputs: USB and RS232 ports

Removable Data storage: Flash drive (memory stick)

Data Entry: 15 key touchpad

Display: 40 character alphanumeric backlit LCD

Printer: 42 character high speed thermal printer

Protective Sleeve

Carrying handle

Power supply: 90-264V AC, 47-63 Hz.

12V DC car adapter/internal battery

Dimensions: 290 x 255 x 130 (excluding the protective cage)

Weight: 5.0 kg

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your test - done!
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