

TitroLine KFtrace

Coulometric Karl Fischer Titrator



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TitroLine KF trace

Karl Fischer Titrations easily performed

The coulometric Karl Fischer titrator TitroLine KF trace is the dedicated instrument for determining even smallest water content in your samples.

As the coulometric determination of water does not require a standardisation of a titrant, the handling is easier compared with the volumetric titration: Once the instrument is installed, the reagents are inserted into the titration cell and the instrument is switched-on. The conditioning is triggered in the background and automatically determines the drift. A few minutes later the TitroLine KF trace is ready for the first samples.



Flexible methods

The methods for the sample titration and blank values are stored in the TitroLine KF trace, pre-assigned with the commonly used parameters.

These methods can of course be changed to suit special requirements and make print-outs via the connected printer.



Method configuration

The large display to gives a clear overview of the next steps in process.

Parameterization using the arrow keys and the enter/F1 and ESC/F4 key is fairly easy.

Taking a look into the operating manual is almost not necessary.



Documentation

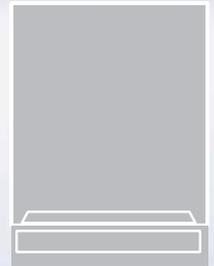
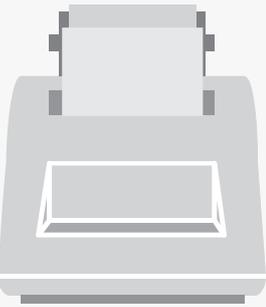
You can decide if you want to print the results in either a short form, as standard form with a curve or as complete GLP printout including all method parameters.

Of course all results are displayed with average value and drift.

Titration stand and titration vessel: Accessories made to match

Titrated samples can be extracted through pushing a button on the titration stand TM KF (optional, within the scope of delivery module 2 and module 4). A further keystroke provides a new reagent.

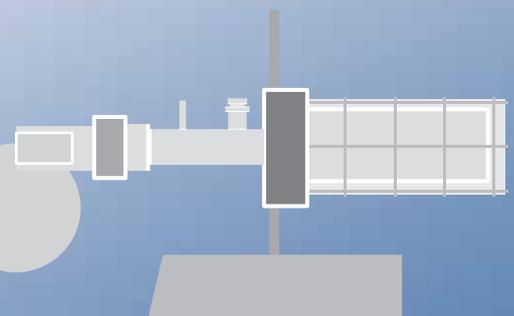
An integrated magnetic stirrer in TM KF takes care of the balanced distribution of reagents and sample.



Connection to scales, printer, PC, KF oven ...

The two RS-232C and one USB interface enable a parallel connection of scales for automatic transfer of weighing data and a printer.

The additional USB interface can also be used for connecting a PC.



Technical Data TitroLine KFtrace

Hardware

Interface RS-232-1	For connecting PC for control and data transfer or for serial printers
Interface USB	Alternative to RS-232-C 1 for connecting a PC for control and data transfer
Interface RS-232-2	For connecting analytical balances or further instruments ("Daisy Chain")
Stirrer/ pump	Stirrer TM135 or stirrer and pump of the TMKF titrations stand
Keyboard connection	For PC keyboard with PS/2 socket i.e. TZ 2835
Display	High-contrast 8-lines LCD display with backlight and contrast setting, 69 x 39 mm
Electrodes	Connection for double platinum electrode and connection of generator electrode
Power supply	Wide range power supply 100–240 V, 50/60 Hz, power consumption 30 VA
Housing dimensions	200 x 265 x 205 mm (W x H x D) with titration stand TM135/TMKF 310 x 135 x 205 mm (W x H x D), height including titration vessel
Weight	Approx. 1.4 kg for basic instrument, approx. 2.5 kg for complete instrument with titration stand TMKF (module 2 and module 4)
Climate	Ambient temperature +10 ... +40 °C for operation and storage

Software

Measuring range	10 µg–100 mg / 1 ppm–5% (recommended)
Number of methods	10
Conditioning	Automatic with drift determination
Endpunktkriterien	Drift, drift tolerance
Autostart after adding sample	Yes
Statistics	Average value, standard deviation and relative standard deviation (max. 10)
New calculation	By entering of a new sample amount
Curve printing	measuring unit/time
Documentation	GLP compliant

Ordering Information TitroLine KFtrace

Complete module

TitroLine KFtrace, module 1 complete module for coulometric Karl Fischer titrations	Scope of supply: TitroLine KFtrace basic instrument, magnetic stirrer TM135, full body glass titration vessel TZ1751, micro double platinum electrode KF1150 with attached cable, generating electrode without diaphragm TZ 1752 and connecting cable	285212258
TitroLine KFtrace, module 2: complete module for coulometric Karl Fischer titrations	Scope of supply: TitroLine KFtrace basic instrument, TMKF titration stand with pump, titration vessel TZ1754, micro double platinum electrode KF1150 with attached cable, generating electrode without diaphragm TZ 1752 and connecting cable	285212268
TitroLine KFtrace, Modul 3 complete module for coulometric Karl Fischer titrations	Scope of supply: TitroLine KFtrace basic instrument, magnetic stirrer TM135, titration vessel TZ1751, double platinum electrode KF1150 with attached cable, generating electrode TZ 1753 with diaphragm and connecting cable for generating electrode	285212278
TitroLine KFtrace, Modul 4 complete module for coulometric Karl Fischer titrations	Scope of supply: TitroLine KFtrace basic instrument, titration stand with pump TMKF, titration vessel TZ1754, double platinum electrode KF1150 with attached cable, generating electrode TZ1753 with diaphragm and connecting cable for generating electrode	285212288

Accessories for TitroLine KF trace:

KF1150	285102060	Double platinum electrode
TZ2835	1007852	PC keyboard
TZ1751	285216630	Glass titration vessel with 3 openings
TZ1752	285216660	Generating electrode without diaphragm
TZ1753	285216650	Generating electrode with diaphragm
TZ1754	285216640	Glass titration vessel with 5 openings for TMKF and KF evaporator
TZ1052	285214721	KF evaporator for KF water determination, 230V
TZ1055	285215183	KF evaporator for KF water determination, 115V
TZ1060	285218115	Accessories set for KF evaporators TZ1052 and TZ1055
TZ3461	285225610	RS-232C printer incl. printer cable TZ 3090, 230 V
TZ3466	285225660	RS-232C printer incl. printer cable TZ 3090, 115 V

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