

KFT40

Karl Fischer Titrator • 0.1–250 mg H₂O • ≤0.5 % • KF + titer • Auto fill / purge

KFT40 Karl Fischer Titrator is a volumetric Karl Fischer titrator for water determination from 0.1 to 250 mg H₂O with ≤0.5 % repeatability. It supports KF titration and titer determination, fills, purges and mixes the reagents automatically, offers settable polarization current, stirring and titration rate, endpoint and stop criteria, and stores 200 GLP data sets with RS-232 printer output.

KARL FISCHER TITRATOR

0.1–250 MG H₂O

≤0.5 %

KF + TITER

AUTO FILL / PURGE

GLP

RS-232

Document type: **Technical Specification Sheet**

Product: **KFT40 Karl Fischer Titrator**

SKU: **PRO6105**

Format: **A4 landscape • 5 pages**

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KFT40 • Karl Fischer Titrator



Titration cells • volumetric cell and solvent / waste bottles

MODEL / SKU

**KFT40
PRO6105**

ADDRESS / HQ

**Polje ob Sotli 4
SI-3255, Slovenia**

CONTACT

**sales@colo.si
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KFT40 • technical specification

Karl Fischer Titrator • Volumetric KF titration

0.1–250 MG H₂O ≤0.5 % KF + TITER AUTO FILL / PURGE — Water determination for chemicals, oils, pharma and food

Product Overview

Application profile

Oils and chemicals: water in solvents, raw materials and intermediates at % and ppm level.

Plastics and polymers: water in granules and polymers with suitable sample preparation.

Pharma and food: moisture in APIs, excipients, powders and food products.

QC laboratories: routine release testing with GLP data and printouts.

Key features

Water range: 0.1–250 mg H₂O

Resolution: 0.1 mg

Polarization current: 1 µA ±0.2 µA; 50 µA ±10 µA

Repeatability: ≤0.5 %

Modes: KF titration and titer determination

Core technical summary

Parameter	Specification
Model	KFT40
SKU	PRO6105
Instrument type	Karl Fischer Titrator
Water range	0.1–250 mg H ₂ O
Resolution	0.1 mg
Polarization current	1 µA ±0.2 µA; 50 µA ±10 µA
Repeatability	≤0.5 %
Modes	KF titration and titer determination
Reagent handling	automatic filling, purging and mixing of reagents
Units	mg, mg/L, %, ppm

Advantages

Reagent handling: automatic filling, purging and mixing of reagents.

Settable parameters: units, polarization current, stirring, endpoint potential and stop criterion.

Data memory: 200 titration data sets, GLP; RS-232 (printer).

WATER RANGE

0.1–250 mg

REPEATABILITY

≤0.5 %

RESOLUTION

0.1 mg

DATA MEMORY

200 sets

Technical values are provided for product selection. The delivered configuration, electrode type and accessory set are confirmed in the official COLO.Science quotation.

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Technical Parameters

Parameter	Specification	Parameter	Specification
Model	KFT40	Units	mg, mg/L, %, ppm
SKU	PRO6105	Data memory	200 titration data sets, GLP
Water range	0.1–250 mg H ₂ O	Display	LCD, methods, curves and results in detail
Resolution	0.1 mg	Data output	RS-232 (printer)
Polarization current	1 μ A $\pm$ 0.2 μ A; 50 μ A $\pm$ 10 μ A	Power supply	AC adapter, 100–240 V AC
Repeatability	$\leq$ 0.5 %	Dimensions	340 $\times$ 400 $\times$ 400 mm
Modes	KF titration and titer determination	Weight	approx. 10 kg
Reagent handling	automatic filling, purging and mixing of reagents		

Specification notes

Method choice: volumetric KF for samples with more than about 0.1 % water, coulometric KF for ppm and trace levels.

Reagents: KF reagents are ordered separately; use reagents matching the method (titrant and solvent, or anolyte and catholyte).

Good practice: keep the cell sealed, replace the desiccant in the drying tubes regularly and let the drift stabilize before each determination.

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Accessories and consumables



Volumetric titration cell with measuring electrode

Sealed titration vessel with double platinum measuring electrode, drying tube and magnetic stirring.

Standard delivery



Solvent and waste bottle holder

Holds the solvent and waste bottles for automatic filling, purging and mixing of the KF reagents.

Optional

More accessories and consumables

SKU	Item	Use	Status
10 mL	Burette 10 mL	Volumetric KF titration	Standard delivery
—	Karl Fischer reagents (titrant, solvent, anolyte / catholyte)	Consumables — ordered separately	Optional
—	Molecular sieve / desiccant for drying tubes	Protection of the cell from ambient moisture	Optional
—	Syringes and needles for sample injection	Liquid sample dosing	Optional
—	RS-232 printer	GLP printout of results	Optional

Standard delivery: KFT40 unit, volumetric titration cell with measuring electrode, 10 mL burette. KF reagents are not included. Standard delivery is confirmed in the quotation.

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KFT40 standard delivery

Ordering information

Item	Value
Model	KFT40
SKU	PRO6105
Instrument type	Karl Fischer Titrator
Standard delivery	volumetric titration cell with measuring electrode, 10 mL burette
Not included	KF reagents, printer
Power supply	AC adapter, 100–240 V AC

Configuration checklist

Water content: % level (volumetric) or ppm / μg level (coulometric).

Sample: liquid, solid or gas; solubility in the KF reagent.

Reagents: one- or two-component titrant, or coulometric analyte / catholyte.

Documentation: RS-232 printer for GLP printouts.

MANUFACTURER AND SUPPORT

COLO Lab Experts
Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: KFT40 is chosen for routine volumetric water determination at % and ppm level. COLO.Science helps you choose cells and reagents.

QUICK CONTACT

 colo.si

 sales@colo.si

 +386 70 713 437

COLO.SCIENCE • KARL FISCHER TITRATOR CONFIGURATION SUPPORT

Need help choosing the right Karl Fischer method?

Tell us the sample, the expected water content and the number of samples. COLO.Science will confirm the KFT40 configuration, cells and reagents.

Web: colo.si

Ask us:

Price and current discount, delivery time, electrode selection for your sample, calibration standards, installation and operator training, spare electrodes and accessories — write to sales@colo.si or call us.

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