

Описание на титраторы Карла Фишера. Модель AQUA 40.00

По вопросам продаж и поддержки обращайтесь: jxn@nt-rt.ru

www.jena.nt-rt.ru

Архангельск (8182)63-90-72,
Астана+7(7172)727-132,
Белгород(4722)40-23-64,
Брянск(4832)59-03-52,
Владивосток(423)249-28-31,
Волгоград(844)278-03-48,
Вологда(8172)26-41-59,
Воронеж(473)204-51-73,
Екатеринбург(343)384-55-89,
Иваново(4932)77-34-06,
Ижевск(3412)26-03-58,
Казань(843)206-01-48,
Калининград(4012)72-03-81,
Калуга(4842)92-23-67,
Кемерово(3842)65-04-62,
Киров(8332)68-02-04,

Краснодар(861)203-40-90,
Красноярск(391)204-63-61,
Курск(4712)77-13-04,
Липецк(4742)52-20-81,
Магнитогорск(3519)55-03-13,
Москва(495)268-04-70,
Мурманск(8152)59-64-93,
Набережные Челны(8552)20-53-41,
Нижний Новгород(831)429-08-12,
Новокузнецк(3843)20-46-81,
Новосибирск(383)227-86-73,
Орел(4862)44-53-42,
Оренбург(3532)37-68-04,
Пенза(8412)22-31-16,
Пермь(342)205-81-47,
Ростов-на-Дону(863)308-18-15,

Рязань(4912)46-61-64,
Самара(846)206-03-16,
Санкт-Петербург(812)309-46-40,
Саратов(845)249-38-78,
Смоленск(4812)29-41-54,
Сочи(862)225-72-31,
Ставрополь(8652)20-65-13,
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Томск(3822)98-41-53,
Тула(4872)74-02-29,
Тюмень(3452)66-21-18,
Ульяновск(8422)24-23-59,
Уфа(347)229-48-12,
Челябинск(351)202-03-61,
Череповец(8202)49-02-64,
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EXPERTS IN ANALYSIS_iS



aqua
40.00

Karl Fischer Titrator

Description

The basic module is the essential device for microcoulometric water determination according to Karl-Fischer-Titration in liquid samples and gases. This coulometric titration is based on the electrochemical generation of the iodine needed for the determination. There is no need for any working with titer of KF-reagent and their adjustment.

The optimized measuring cell allows very low background drift and short preconditioning times. Therefore the coulometric method can be used as a down to trace ppm-analysis.

The sample to be analyzed is injected right into the measuring cell.

The titration current is adjusted automatically and continuously to the amount of water. Short measuring times are realized.

Measuring cells without diaphragm can be used. Many applications do not require a diaphragm, so only one coulometric reagent is needed. All customary KF-reagents are suitable.

The basic module can be upgraded with additional modules available on request.

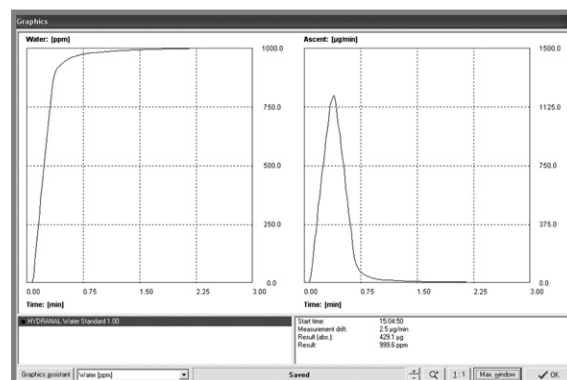


basic modul aqua 40.00

Applications

Water determination according to Karl-Fischer-Titration in

- Solvents
- Lyophilisates
- Petro-chemicals
- Biodiesel
- Hydraulic oils / Mineral oils
- Solids via liquid extraction



aqua 40.00 basic module - measurement

extension modules

Headspace module

- universal module for all kind of samples: solids, pasty substances and oils
- designed for samples that change the water content if in contact with ambient air
- heating procedure with freely definable temperature or temperature programs
- analysis of closed sample vials for hygroscopic samples



Headspace module

Heating module for oils and for solids:

- Gas extraction - the ideal method to handle oils, solid and pasty substances
- heating procedure with freely definable temperature or temperature programs
- with closed-loop gas circulation, the drying of carrier gas is no longer necessary
- heating module of oils is used for oil volumes up to 20 ml
- heating module of solids is used for very small sample amounts (below 10 µg)



Heating module for oils and for solids

High temperature oven module:

- this oven can heat out the sample at temperatures ranging up to 1300 °C.
- a special valve system transports the sample into the oven without interrupting the carrier gas circulation.
- Internal drying of carrier gas



High temperature oven

Gas sampling module:

- The gas-sampling module is mounted on the basic module and can be used for determination of water down to 1 ppm, e.g. in natural gas, industrial gas, biogas and pressurized gas
- allows precise and reproducible dosing of gas volumes into the measuring cell directly
- portable version or gas sampling module for laboratory



gas sampling module

Advantages

- Infinitely variable electrolysis current for very fast analysis
- Adjustment of titration rate to current amount of water to be titrated
- Low background drift
- All customary KF-reagents are suitable
- Easy-to-use software
- Defined methods for measurement
- Status display through large-scale colouration
- Additional heating modules can be used

Specifications

Measuring range:

1 µg - 100 mg, absolute

Resolution:

0.1 µg

Reproducibility:

± 3 µg bei 10 ... 1000 µg,
3% bei > 1 mg

Generator current:

infinitely variable from 0 up to
250 mA

Sample volume:

0.01 – 20ml (direct injection)

Volume of reagent in measuring cell:

100 ml

Analysis duration:

5 min (dependent on water content)

Results in:

µg, µg/l, mg/l, ppm, %, mC,
customized with formula generator

Indication:

biamperometrical, polarization with
square-wave voltage

Power Supply:

115 - 230V, 50-60 Hz

Interface:

RS 232

Balance connection:

RS 232

Dimensions (width x height x depth):

100 x 400 x 200 mm

Weight:

5 kg

reagent consumption

measuring method for oil

preparation and protocol of the titration test

No.	Sample amount [mg]	Dosed quantity [µg]	Detect. quantity [µg]	Detect. Water %
1	450.85	450	461	1.000
2	425.45	425	422	0.991
3	505.20	504	505	1.000

Evaluation of the titration test

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