



Karl Fischer  
titration safer and  
easier than ever  
before.

# OMNIS

## KARL FISCHER TITRATOR

# MAKE MORE OF YOUR KARL FISCHER TITRATION

With the OMNIS Titrator and the hardware and function license for volumetric Karl Fischer titration, you can determine the water content in almost any matrix. No other system offers you comparable user safety, more convenience, or greater sample throughput!

## SAFER

### No risk of coming into contact with reagents or solvents

From adding solvents and reagents to titration itself and disposal of the sample, as well as preparing the titration cell for the next determination – the entire analysis takes place in a closed system.

## MORE RELIABLE

### Automatic titration start

Previously, if the titration was not started right after the sample was added, the sample was lost and the measurement had to be repeated. OMNIS rules out this risk of error because OMNIS starts the titration automatically after the sample is injected.

## MORE CONVENIENT

### Fully automatic water content determination in up to 50 samples

Automate your Karl Fischer titration with the OMNIS Sample Robot and determine the water content in up to 50 samples – completely unattended! OMNIS Dis-Cover ensures reproducible results: Your samples are automatically sealed with airtight and dustproof lids, protecting them against moisture from the ambient air.

## MODULARITY ON A WHOLE NEW LEVEL

Firmware Package	Add Prep Empty Fill	MEAS U/T/pH/ CONC	MEAS Ipol/ Upol	CAL	SET w/o cond.	MET	DET	Parallel Dosing	Parallel Titration	Karl Fischer
Basic	+	+	+	+	+	Opt.	Opt.	+	Opt.	Opt.
Advanced	+	+	+	+	+	+	+	+	Opt.	Opt.
Professional	+	+	+	+	+	+	+	+	+	Opt.

OMNIS is modular and configurable – entirely to suit your needs!



1

**OMNIS Titrator**

Simply license the measuring mode for volumetric Karl Fischer titration and determine the water content with OMNIS

2

**OMNIS Solvent Module**

For contact-free exchange of the solvent – manually or automatically

4

**Two measuring inputs**

Add hardware and perform potentiometric titrations **and** volumetric Karl Fischer titrations with the same titrator

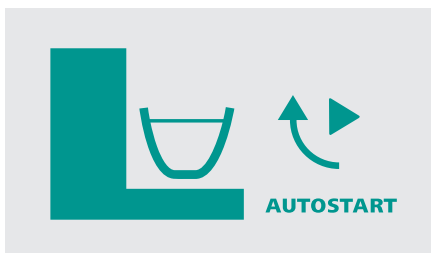
3

**Karl Fischer titration cell**

The entire analysis is performed in a closed system



01 **Safer:** contact-free exchange of the solvent – automatically or manually



02 **Reliable:** OMNIS starts the titration automatically after the sample is injected



03 **Convenient:** OMNIS Dis-Cover protects your samples against moisture from the ambient air

## TECHNICAL SPECIFICATIONS

<b>Potentiometric</b>	
Measuring range	–2400 mV to +2400 mV
Resolution	1.56 $\mu$ V
Measuring accuracy	$\pm$ 0.5 mV in the measuring range –2000 mV to +2000 mV
Input resistance	$\geq 1 \cdot 10^{12} \Omega$
Offset current	$\leq \pm 1 \cdot 10^{-12}$ A
<b>Temperature</b>	
Pt1000	
Measuring range	–150 °C to +250 °C
Resolution	Approx. 0.002 °C
Measuring accuracy	$\pm$ 0.4 °C in the measuring range –20.0 °C to +150.0 °C
<b>Polarizer</b>	
Ipol DC	
Polarization current	–200 $\mu$ A to +200 $\mu$ A, adjustable in 0.5 $\mu$ A steps
Measuring range	–2400 mV to +2400 mV
Measuring resolution	0.1 mV
Upol DC	
Polarization current	–2000 mV to +2000 mV, adjustable in 5 mV steps
Measuring range	–200 $\mu$ A to +200 $\mu$ A
Measuring resolution	0.01 $\mu$ A
<b>Other functions</b>	
Automatic titration start	Yes
Manual or automatic reagent exchange	Yes
Burette resolution	100,000 steps
Cylinder volume	2, 5, 10, 20, or 50 ml
Sample changer with OMNIS Dis-Cover	Optional
Scale connection for direct transfer of sample weight	Yes