Performance on
a whole new level

OMNIS Titrator

Metrohm

swiss made

OMNIS
TITRATOR

Ω Metrohm

FASTER, SAFER, EASIER – TITRATION ON A WHOLE NEW LEVEL

The OMNIS Titrator is at the heart of the modular OMNIS Titration Platform. Dosing with a resolution of 100,000 steps for higher precision, an optimized titration algorithm for faster results, and a unique, patented system for faster and safer reagent exchange – the OMNIS Titrator is the new benchmark in titration.

FASTER

Save time with OMNIS

Save time with a new buret drive for faster dosing and refilling of the dosing cylinder with titrant. With the new Liquid Adapter that allows you to **safely exchange reagents in a few seconds** importing reagent specifications automatically into the software. And with an optimized user interface for efficient and convenient managing of your routine applications.

SAFER

No risk of contact with reagents

Simply connect the OMNIS Liquid Adapter to the cap on the reagent bottle – that's how safe and easy exchanging reagents is with OMNIS! This patented system **completely eliminates the risk of coming into contact with toxic reagents**. Moreover, OMNIS reads the specifications of the reagent from an RFID chip in the bottle cap for complete traceability of the analysis.

EASIER

Scale up performance as you need

Instead of buying another instrument, simply expand your OMNIS Titrator when you need to. You can connect and control **up to four additional burets and eight additional measuring inputs** with your OMNIS Titrator! Likewise, you can always license additional measuring modes so you can also perform, e.g., volumetric Karl Fischer titrations with your OMNIS Titrator!
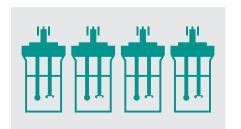
MODULARITY ON A WHOLE NEW LEVEL

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.

Additional measuring modes can be licensed any time to increase the capabilities of your OMNIS Titrator step by step.

2

OMNIS Liquid Adapter
Safely exchange reagents
in a few seconds.

1

OMNIS Titrator
Modular firmware design: Upgrade your OMNIS Titrator
any time by licensing additional measuring modes.
You can control up to four additional burets and eight
additional measuring inputs with your OMNIS Titrator!

4

OMNIS Buret
Superior accuracy of results due
to dosing with a resolution of
100,000 steps.

3

Two measuring inputs
Add hardware and perform potentiometric
and volumetric Karl Fischer titrations with
the same titrator.

20 sec.

CLICK

01 **Faster:** Safely exchange reagents in a
few seconds.

02 **Safer:** The OMNIS Liquid Adapter
eliminates the risk of physical contact
with reagents.

03 **Easier:** Scale up OMNIS module by
module to customize the solution
you need.

TECHNICAL SPECIFICATIONS

Titration modes (modular)	MEAS pH/U/mV/T/°C MEAS CONC for ion measurement CAL pH Calibration with automatic buffer recognition CAL CONC Calibration for ion selective electrodes DET Dynamic Equivalence-point Titration MET Monotonic Equivalence-point Titration SET Titration to a preset endpoint with automatic conditioning KFV Volumetric Karl Fischer Titration with automatic titration start after sample addition
Dosing elements	1 integrated dosing drive with 100,000 dosing steps per cylinder volume
Attachment of additional dosing elements	Up to 4 additional Titration or Dosing Modules
Maximum number of parallel titrations per OMNIS Titrator	5
Intelligent cylinder units with integrated data chip	Yes, available volumes: 2, 5, 10, 20, or 50 ml
OMNIS Liquid Adapter with 3S Technology for contact-free reagent exchange	Yes
Digital electrodes «dTrodes»	Yes
Stirrers	Magnetic or rod stirrer
Measuring interfaces	Maximum 10 measuring interfaces Up to two measuring interfaces digital or analog per OMNIS Titrator or Titration Module
Measuring range U / resolution Measuring range T / resolution Polarization current Measuring interval	±2,400 mV / 0,1 mV −150 °C to +250 °C / 0.002 °C (Pt1000) −200.0 µA to +200.0 µA (in 0.5 µA steps) 100 mS
Differential amplifier	With OMNIS Measuring Module Analog
Automation options	OMNIS Sample Robot S, M, or L for up to 175 samples and 4 parallel titrations
Fixed endpoint evaluation	Maximum 9 fixed endpoints
Break point evaluation (photometry)	Yes
Operation	Software (via LAN / Ethernet connection)
Dialog languages	English, Chinese, German, Japanese
Attachment of balances, barcode reader, third-party devices	Via computer / RS232
Report options	PDF / print