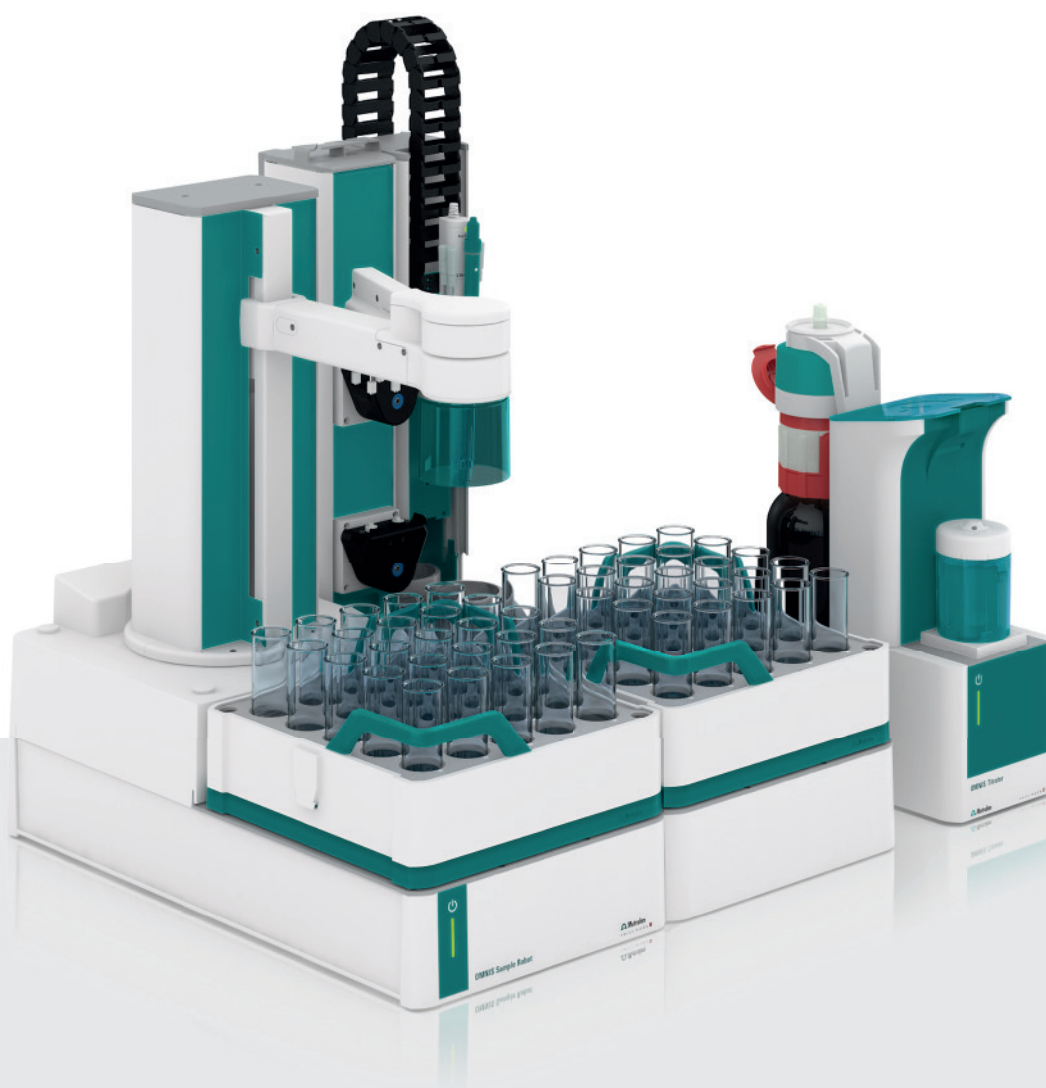




OMNIS

PERFORMANCE ON A WHOLE NEW LEVEL

OMNIS is as individual as your analytics and grows in accordance with your requirements.



OMNIS – A SYSTEM THAT SIMPLY OFFERS MORE

OMNIS is the new analytical system by Metrohm. OMNIS is based on a modular platform that puts the user first – always and on all levels.

What does that mean, and what advantages does OMNIS offer? Find out on the following pages!

MODULAR

A SYSTEM THAT GROWS WITH YOUR SUCCESS

For a start, OMNIS is the OMNIS Titrator. This is the basic module around which you can gradually build up your OMNIS analysis system – anytime you want, and according to the requirements of your analytics. Hence, you need not worry about whether your system will meet your requirements in the future: With OMNIS you are always prepared.

Laboratory manager Dr. Clark works for a beverage manufacturer. Until now, only the total acidity of the product "Yummy" needed to be measured at the lab.



OMNIS Titrator
For measuring total acidity.



Laboratory manager
Dr. Clark

"From now on, we analyze another product: 'Juicy.' In addition to total acidity, the vitamin C content also needs to be measured."

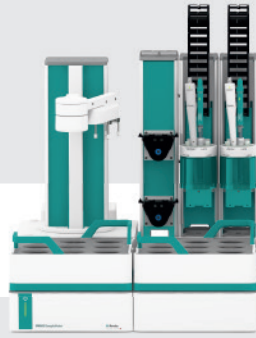
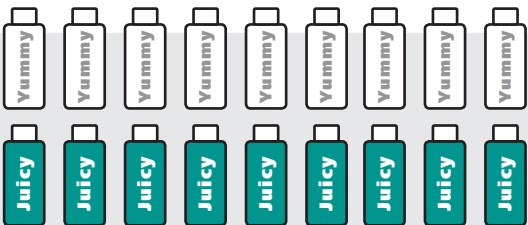


+ Additional Dosing Module
For manual measurement of total acidity and vitamin C content.



"We will automate. That will increase throughput and reduce stress and errors in the lab."

BOTH PRODUCTS BECOME VERY SUCCESSFUL.



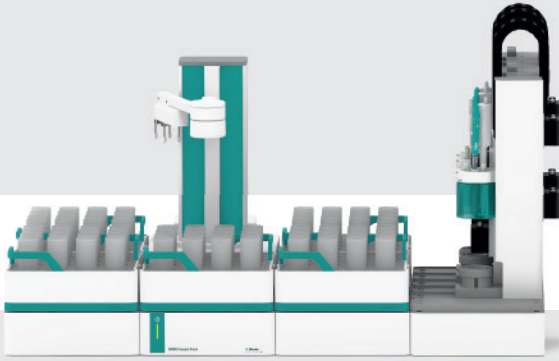
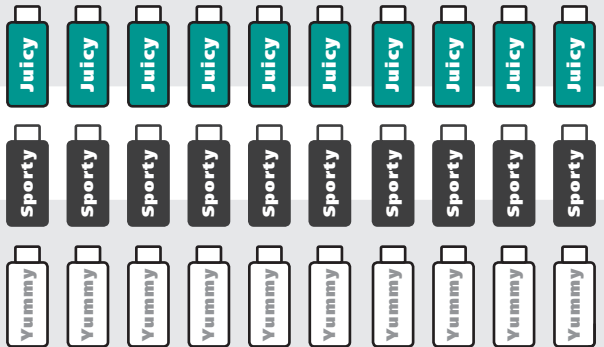
+ OMNIS Sample Robot S with two workstations
For automated measurement of total acidity and vitamin C content.

"Another product: 'Sporty.' Now we need to determine four parameters simultaneously. With OMNIS that is very easy!"



**+ Additional Titration Module
+ Additional Dosing Module**
For manual measurement of chloride, and calcium/magnesium content.

ALL THREE PRODUCTS BECOME VERY SUCCESSFUL.



OMNIS Sample Robot M with four workstations

"We will automate everything!"



"And when our products are available as instant versions in the future and we have to determine the water content, we can even add Karl Fischer titration to our OMNIS system."

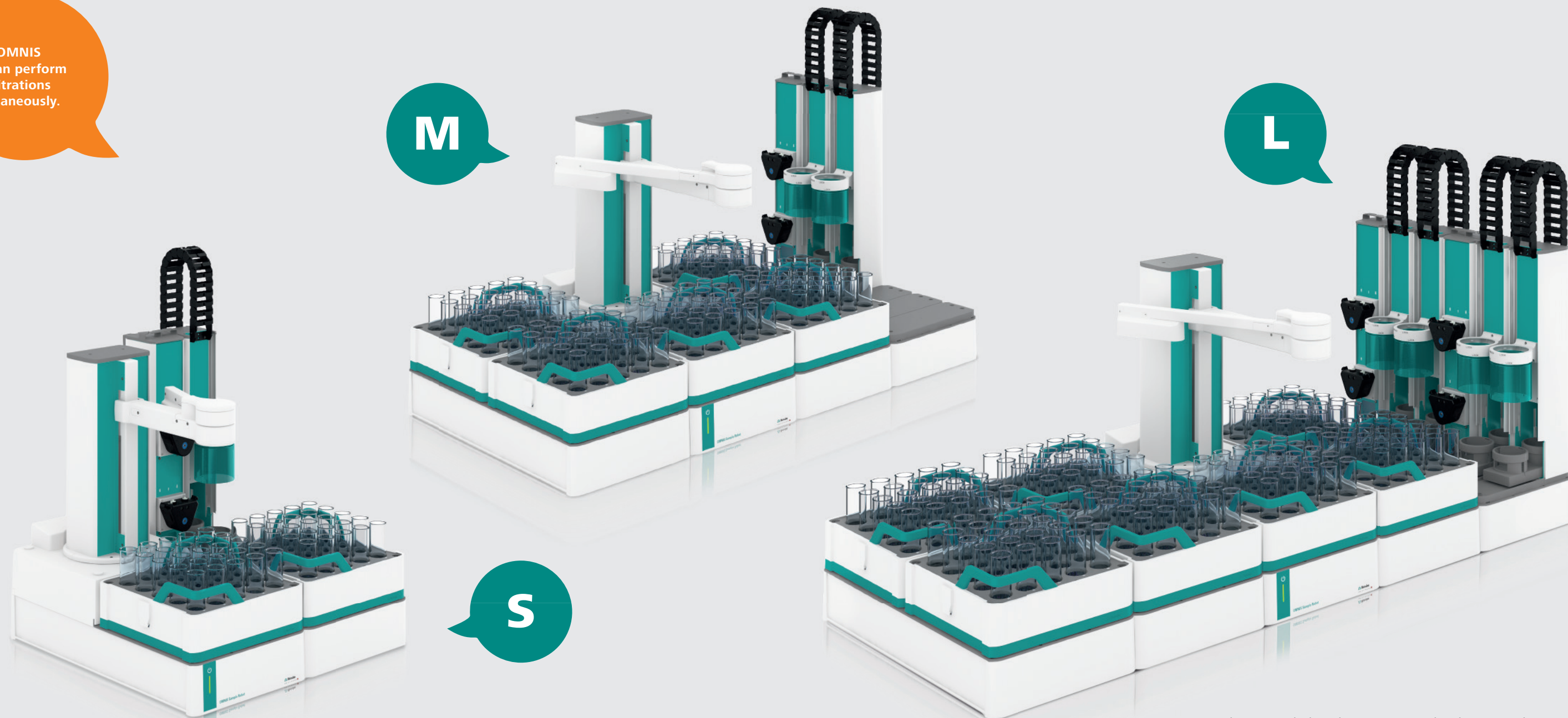


With OMNIS
you can perform
four titrations
simultaneously.

M

L

S



Scaling up sample throughput: OMNIS Sample Robot S, M, and L

SCALABLE

A SYSTEM THAT OFFERS INCREASED PERFORMANCE

How do you increase throughput in your laboratory to match the growing number of analyses? Easy: automate your analyses with the OMNIS Sample Robot! The OMNIS Sample Robot uses laboratory bench space much more efficiently than ordinary disc sample changers.

The OMNIS Sample Robot is available in sizes S, M, and L and can be scaled up step by step. Start small with the OMNIS Sample

Robot S and increase your system's capacity as needed. Simply upgrade to size M or maximize your capacity with size L for up to 175 samples.

On top of that you can add workstations on your OMNIS Sample Robot at any time. The OMNIS Sample Robots M and L accommodate up to four workstations. Hence, you can use your OMNIS Sample Robot to determine the same parameter at all four work-

stations. Or you may use these four workstations to simultaneously determine four different parameters – that's what we call true parallel titration!

Your benefit? **Huge time savings on your titration bench combined with perfect flexibility!**

OMNIS: Safer
reagent exchange
and complete
traceability of
results.

With OMNIS, titration is safer and
smarter than ever



SAFER

A SYSTEM THAT PROVIDES SUPERIOR PROTECTION

Every reagent exchange holds a certain risk because unwanted contact with reagents cannot be excluded entirely. To minimize this risk, we developed the OMNIS Liquid Adapter. It provides for the safe and simple connection of the reagent bottle to your OMNIS Titrator preventing any risk of accidental contact with the liquid in the bottle when changing the reagent.

Once the OMNIS Liquid Adapter and the reagent bottle have been connected, OMNIS identifies the reagent, feeding this information to the software. This works via RFID technology and prevents user errors.

This technology also bridges the final gap in analysis traceability: With OMNIS you can fully trace back who connected which reagent and at what time – during an audit, for example.



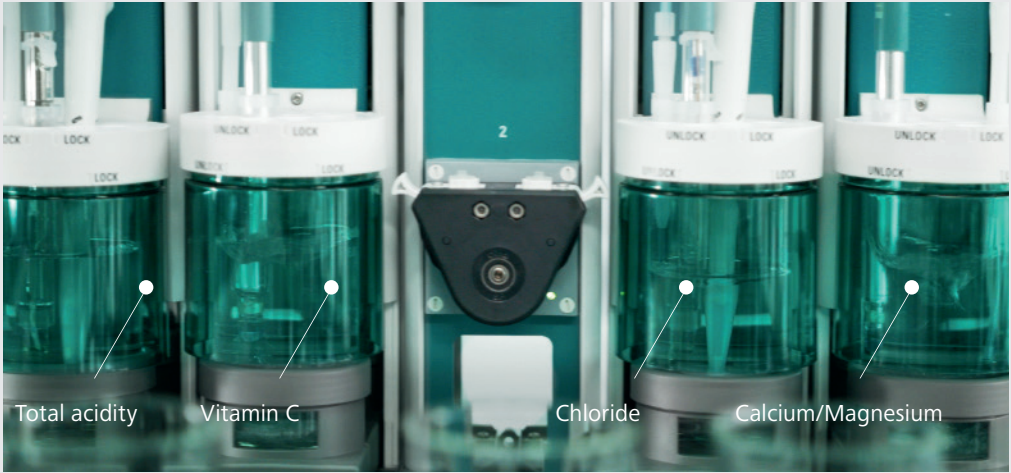


◀ **Karl Fischer Titration Starts Automatically**

Up to now, volumetric determination of the water content according to Karl Fischer involved a certain challenge: If you forgot to start the titration in due time, the sample was lost and you had to repeat the analysis. With OMNIS you do not even have to start the titration at all, as this is done automatically. Karl Fischer titration could not be easier and more reliable!

◀ **Exchange Sample Racks during System Operation**

Time is money, especially during routine analyses. OMNIS allows you to exchange samples that have already been analyzed rack by rack even during system operation. No matter where you place your racks on the OMNIS Sample Robot, it will automatically identify each individual rack.



▶ **Keeping Track with Designated Workstations**

When running several applications simultaneously with your OMNIS system, you can assign the different applications to designated workstations. This way, it is easy for you to keep an overview, even when performing complex analyses.

MORE RELIABLE

A SYSTEM THAT PREVENTS ERRORS

Errors are frustrating, which is why it is better to prevent them in the first place. OMNIS offers a wide range of features that help you prevent errors. This makes your analytics easier and more reliable.



◀ **LEDs Signal the Status of OMNIS**

LEDs on all system modules clearly signal the status of your system. Green means everything is OK, the respective module is working flawlessly. If the LED flashes a yellow light, there is no connection to the system. A flashing red light signals an error. Your benefit: When you enter the laboratory, you will grasp the condition of your system at a glance, and you can easily identify which module might need your attention.

OMNIS puts the focus on the sample and answers Dr. Clark's questions at a glance.





Laboratory manager
Dr. Clark

Which parameters need to be determined in my sample? All samples and their respective parameters are displayed in a complete sample profile via a single mouse click. This way, Dr. Clark sees all the parameters that need to be measured for each sample at a glance.

Samples

Samba - All samples

Sample list

Samba - All samples

Sporty

Name	Production date	Batch number	Analyst	No.	Name	Operating procedure	Sample Size	Determination start	Acidity [mmol/L]
Yummy	2018-03-16	YU2356	Patty	1	Yummy	Acidity	50 mL	2018-03-19 14:06:16	2.35
Juicy	2018-03-16	JU6589	Patty	2	Yummy	Acidity	50 mL	2018-03-19 14:06:22	2.35
				3	Juicy	Acidity	50 mL	2018-03-19 14:07:18	1.88
				4	Juicy	Acidity	1 mL	2018-03-19 14:07:39	1.89
				No.	Name <th>Operating procedure</th> <th>Sample Size</th> <th>Determination start</th> <th>Vitamin C [mg/L]</th>	Operating procedure	Sample Size	Determination start	Vitamin C [mg/L]
Sporty	2018-03-16	SP2347	Patty	5	Juicy	Vitamin C	25 mL	2018-03-19 14:08:46	205.00
				6	Juicy	Vitamin C	25 mL	2018-03-19 14:09:31	205.45
				No.	Name <th>Operating procedure</th> <th>Sample Size</th> <th>Determination start</th> <th>Acidity [mmol/L]</th>	Operating procedure	Sample Size	Determination start	Acidity [mmol/L]
				7	Sporty	Acidity	50 mL	2018-03-19 14:10:53	2.03
Sporty	2018-03-16	SP2347	Patty	8	Sporty	Acidity	50 mL	2018-03-19 14:12:37	2.03
				No.	Name <th>Operating procedure</th> <th>Sample Size</th> <th>Determination start</th> <th>Chloride content [mg/L]</th>	Operating procedure	Sample Size	Determination start	Chloride content [mg/L]
				9	Sporty	Chloride	10 mL	2018-05-03 13:36...	
Sporty	2018-03-16	SP2347	Patty	10	Sporty	Chloride	10 mL		
				No.	Name <th>Operating procedure</th> <th>Sample Size</th> <th>Determination start</th> <th>Calcium [mg/L]</th> <th>Magnesium [mg/L]</th>	Operating procedure	Sample Size	Determination start	Calcium [mg/L]

Sample list and results database – in one and the same window: Dr. Clark can see at a single glance which determinations have already been performed and which are still waiting in line.

Analysis status: Which analyses have been completed, which are still ongoing, and which ones are yet to be performed?

Is the result within the limits? Dr. Clark can see immediately which results are outside the designated limits.

MORE COMFORTABLE

A SYSTEM THAT MAKES YOUR WORK FUN

When running analyses, you want to get correct results as quickly and conveniently as possible. OMNIS is all about you reaching that goal. This is why, every step of the way, working with OMNIS will feel much easier, more efficient, and more convenient than what you are used to.

REGULATORY COMPLIANCE? OF COURSE!

Secure database, full traceability, user management, audit trail, signatures, and modification comment are features that make regulatory compliance with OMNIS simple.

- FDA 21 CFR Part 11 ✓
- EudraLex, Volume 4, Annex 11 ✓

COMPATIBLE

A SYSTEM THAT PROTECTS YOUR INVESTMENT

With OMNIS, Metrohm marks the beginning of a whole new era of titration. For more than 10 years, Titrando has been the benchmark for titration. However, Titrando will not now be discontinued immediately. That would neither be consistent with our philosophy nor do justice to the important role Titrando still plays in many laboratories worldwide.

Hence, to make the transition as smooth as possible, existing Titrando hardware can be integrated into OMNIS. This way, even if you chose to buy a Titrando now, you can do so with the certainty that your investment will be protected. The following example demonstrates the gradual transition from Titrando to OMNIS.

Lucky Labs, a small contract laboratory, works with a 905 Titrando and an 814 Sample Processor. The system is controlled by tiamo software. Laboratory manager Dr. Dave Parker and CEO Dr. Peter Ludowsky talk with each other about the future ...



Dr. Parker

"Peter, we are getting more and more customer inquiries. It would be worth it to expand the capacity of our titration bench."



Dr. Ludowsky

"Alright then, let's buy another Titrando."



"Let's get an OMNIS Titrator instead. Then all options will be available to us for the future."

The OMNIS software works for both, our Titrando hardware as well as the new OMNIS Titrator of course!"

"I see. So, the advantage of OMNIS is that we can change over step by step?"



"Exactly. As a next step, we could exchange our old 814 Sample Processor for an OMNIS Sample Robot."

That would save space, because our Titrando and the OMNIS Titrator both use the OMNIS Sample Robot.

If sample volumes should increase, we can simply upgrade our OMNIS Sample Robot – it's that easy with OMNIS."

OMNIS ready



905 Titrando



814 Sample Processor



PC with tiamo software



905 Titrando



814 Sample Processor



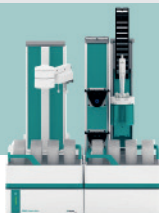
PC with OMNIS software



OMNIS Titrator



905 Titrando



Sample Robot S



OMNIS Titrator



PC with OMNIS software



Additional OMNIS Titrator



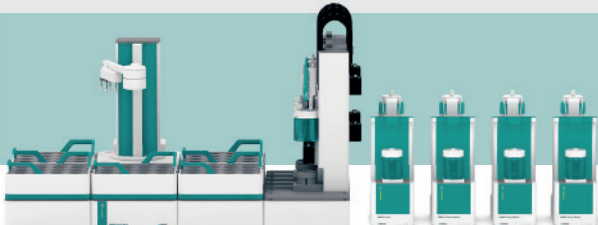
Sample Robot S



OMNIS Titrator



PC with OMNIS software



Automated OMNIS titration system with a Sample Robot M



PC with OMNIS software

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