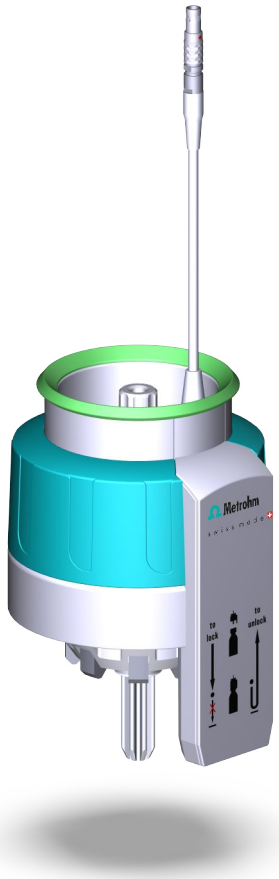
OMNIS Liquid Adapter



Product directions

8.0108.8001EN / 2015-XX-XX

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Product directions

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This document has been prepared with great care. However, errors can never be entirely ruled out. Please send comments regarding possible errors to the address above.

Documentation in additional languages can be found on *http://documents.metrohm.com*.

Table of contents

1 Overview

1.1 Brief description

The **OMNIS Liquid Adapter (6.01600.010)** is a quick-change coupling for chemical bottles with the following sealing mechanisms:

- **Bottle cap, single-use** (mounted on purchased chemical bottles)
- **Bottle cap, multi-use (6.01600.100)**

It takes only a single hand movement to move the OMNIS Liquid Adapter from one bottle to the next. Cable connections and tubing connections remain in place.

The bottle cap, single-use is equipped with an RFID tag on which the data of the chemicals in the bottle is stored. The OMNIS Liquid Adapter has an RFID reader that reads out this data and transfers it to the software.

1.2 Overview

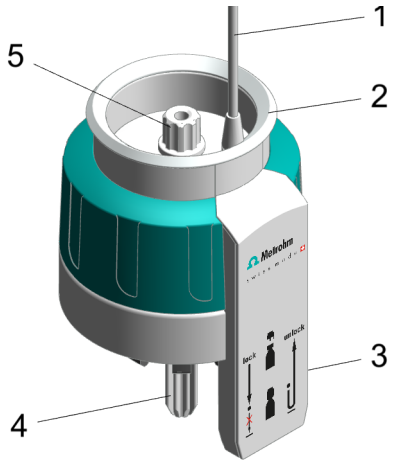

Figure 1 Liquid Adapter - Parts

1	**Cable**	**2**	**Status display**
3	**RFID reader**	**4**	**Aspiration tube** part of 6.01600.xxx
5	**Tubing adapter** part of 6.01600.xxx		

2 Safety

TODO

Work on this Safety chapter is not yet finished

2.1 General safety instructions

To use the OMNIS Liquid Adapter safely, you must be aware of the fundamentals of safe working practices in laboratories. You must be familiar with the safety apparatus in your laboratory and know how to use it.

Observe the following safety instructions for safe operation of the OMNIS Liquid Adapter.

CAUTION

Problems with leak-tightness

The leak-tightness of the OMNIS Liquid Adapter can no longer be guaranteed if the sealing lip or the sealing surface of the aspiration tube is soiled or damaged.

The sealing lip and the sealing surface of the aspiration tube must always be kept clean and intact.

- Check the status of the aspiration tube every time a bottle is replaced.

CAUTION

Damage to the electronics

The OMNIS Liquid Adapter is not resistant to splash water. Water can seep into the interior during cleaning and cause damage to the electronics.

- Do not clean the OMNIS Liquid Adapter under running water.
- Do not use a wash bottle to clean the OMNIS Liquid Adapter.

3 Additional information

TODO

The definitive Internet address of the Metrohm Information portal has not yet been established.

Additional information concerning the OMNIS Liquid Adapter can be found:

- in the Help section of the software
- in the Metrohm Information portal on the Internet *Path Information portal*

4 Technical specifications

4.1 Instrument

High-frequency part	
Frequency	13.56 MHz
Technology	ISO/IEC 14443 A, MIFARE, inductive
Distance	Up to 50 mm
Connector	
Plug connection	Round plug, size 00, 4-pin, locked
Power supply	
Supply voltage	10 V - 27 V DC voltage
Power consumption	Approx. 4 Wp
Status display	Multi-colored, can be configured via software

4.2 Ambient conditions

Nominal function range	
Temperature	+5 - +45°C
Humidity	Max. 85%
Storage and transport	
Temperature	-40 - +70°C

5 Declaration of conformity

5.1 Safety specifications

This instrument fulfills the following electrical safety requirements:

CE marking in accordance with the EU directives:
- 2014/35/EC (Low Voltage Directive, LVD)
- 2014/30/EC (EMC Directive, EMC)
- 2014/53/EC (Radio Systems (RED))

Design and testing According to EN/IEC 61010-1, protection class III, EN/IEC 60950-1, EN/IEC 60529, degree of protection IP20.

Safety instructions This document contains safety instructions which have to be followed by the user in order to ensure safe operation of the instrument.

5.2 Electromagnetic compatibility (EMC)

Requirements EN/IEC 61326-1

Emission
- EN/IEC 61000-6-3
- EN 55011 / CISPR 11

Immunity
- EN/IEC 61000-6-2
- EN/IEC 61000-4-2
- EN/IEC 61000-4-3
- EN/IEC 61000-4-4

5.3 Radio

Radio
- ETSI EN 301 489-1
- ETSI EN 301 489-3
- ETSI EN 302 291-1, product class I
- ETSI EN 302 291-2

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