4010-2/3 pH Adapter DIN / BNC

PH ADAPTER FOR MULTILAB 4010-2 AND MULTILAB 4010-3

YSI®

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For the most recent version of the manual, please visit www.ysi.com.

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General information

The 4010-2/3 pH Adapter enables the connection of an analog pH electrode (with or without temperature sensor) to the digital meters MultiLab 4010-2 and 4010-3.
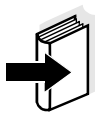
Two models of the adapter are available:

Connection of the analog electrode	Adapter
DIN	4010-2/3 pH Adapter DIN
BNC	4010-2/3 pH Adapter BNC

Automatic adapter recognition

The measuring electronics with the stored adapter data is in the 4010-2/3 pH Adapter. The data include, among other things, the adapter type and series number. With each calibration, the calibration data is written in the adapter and the calibration history is recorded. The data are called up by the meter and used for measurement and documentation of measured values.

If the adapter firmware is enhanced by YSI, it can be updated via the meter.

Note
More detailed information on the automatic adapter recognition or sensor recognition is given in the operating manual of the meter.

Calibration data and calibration history

The meter uses for measurement the calibration data stored in the adapter, regardless of the mounted electrode.
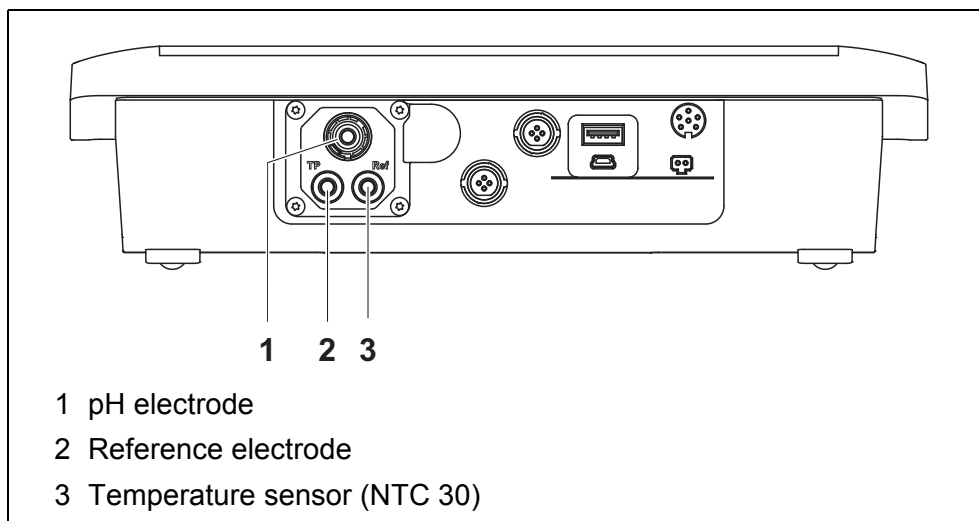
Note
Therefore, you always have to recalibrate after exchanging the pH electrode. Otherwise, the IDS pH sensor will work with the calibration data of the previously calibrated electrode. This could lead to incorrect measured values. When evaluating the calibration history, please note that in between calibrations, the electrode may have been exchanged.

Commissioning, measuring, calibration

Commissioning

1	Unscrew the 4 screws of the cover plate (the screw driver is included in the scope of delivery).
2	Insert the 4010-2/3 pH Adapter in the open mounting slot.
3	Attach the adapter to the meter with the 4 screws.

Example 4010-3 with mounted 4010-2/3 pH Adapter DIN

1 pH electrode

2 Reference electrode

3 Temperature sensor (NTC 30)

Note
The further commissioning steps are given in the operating manual of the pH electrode.

4	Connect the electrode to the socket of the adapter.
5	Calibrate the electrode according to the operating manual of the meter.

All further details are given in the operating manuals of the pH electrode and meter.

Technical data

General data	Electrodes that can be connected	All pH electrodes with DIN or BNC plug head connector

Application characteristics	pH measuring range	Depending on the electrode used
	Allowed temperature range	0 ... 80 °C (32 ... 176 °F)
	Typical application	Applications with special pH electrodes

Measuring characteristics of the IDS measuring electronics in the 4010-2/3 pH Adapter	Measured parameter	Measuring range	Resolution	Accuracy (± 1 digit)
	pH	-2.000 ... 20.000	0.001	± 0.004
	U [mV]	-1000.0 ... +1000.0	0.1	± 0.2
	T [°C]		0.1	± 0.2

Material, electrical connection	Material of the plug enclosure	ABS
	Electrode connection	DIN or BNC
	Meter connection	Mounting slot with contacts

Electrical data of the electrode connection	Input resistance	$> 5 * 10^{12}$ ohm
	Input current	$< 1 * 10^{-12}$ A

Note
The latest version of the present operating manual can be found on the Internet under www.YSI.com.

Contact Information

Ordering & Technical Support

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When placing an order please have the following information available:

YSI account number (if available)	Name and Phone Number
Model number or brief description	Billing and shipping address
Quantity	Purchase Order or Credit Card

Service Information

YSI has authorized service centers throughout the United States and Internationally. For the nearest service center information, please visit www.ysi.com and click 'Support' or contact YSI Technical Support directly at 800-897-4151.

When returning a product for service, include the Product Return form with cleaning certification. The form must be completely filled out for an YSI Service Center to accept the instrument for service. The Product Return form may be downloaded at www.ysi.com and clicking on the 'Support' tab.

Xylem |ˈzīləm|

1) The tissue in plants that brings water upward from the roots;
2) a leading global water technology company.

We're 12,500 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

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