Accurate. Compliant. Secure.

inoLab® at its best

The new inoLab® family: Advanced measuring technology offers new functions including automatic AutoRead, CMC (Continuous Measurement Control) and QSC (Quality Sensor Control) making measurements more convenient and reliable than ever.

The user interface, large display and keypad with tactile feedback provide an exceptional user experience and error-free operation.

Finally simple "plug and measure" convenience is available in the lab when using the the unique Multi® 9310 and WTW's IDS (Intelligent Digital Sensor) technology.

Accurate measurements …
… with the inoLab® 7110 series

pH

Cond

Compliant documentation …
… with the inoLab® 7310 series

pH

O_2

Cond

Securely traceable …
… with the innovative inoLab® Multi 9310 IDS

pH

O_2

Cond

INTELLIGENT DIGITAL SENSORS

Accurate measurements ...

... with the inoLab® 7110 series.

- **AutoRead function ensures repeatable results**

- **Easy calibration including calibration timer**

calibration timer

AutoRead

- **Intuitive user interface**

Meters for everyone who simply need accurate results.

The inoLab® 7110 series is perfectly suited for routine measurements in general laboratory applications. Whether measuring pH or conductivity in environmental, chemical, pharmaceutical, medical or food & beverage industries, this series offers advanced features in a simple to use package. The intuitive user interface and easy to clean housing and keypad are ideal for all environments.
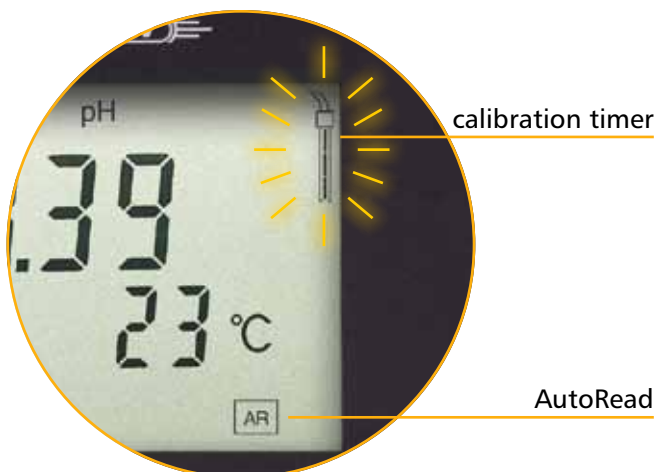
Accurate measurements
The AutoRead function makes achieving repeatable results simple. The meter recognizes when a stable measurement value has been reached. Increased accuracy is ensured with the adjustable calibration timer reminding the user to calibrate periodically.

Easy to operate
The keypad offers intuitive operation and the large and clearly arranged display provides all necessary information at-a-glance.

All meters are available in application sets that include sensors, electrode stand and power supply.

Compliant documentation ...

... with the inoLab® 7310 series.

- USB interface for fast data transfer

- Complete data transfer in .csv format

- Data output via optional integrated printer

Precision meters plus documentation
The 7310 series for the measurement of pH, conductivity or amperometric dissolved oxygen is designed for all applications in laboratories where documentation supporting AQA (Analytical Quality Assurance) and GLP (Good Laboratory Practice) is required. These meters offer all the features of the 7110 series plus additional documentation functions.

Documentation via USB
With the USB interface, the inoLab® 7310 easily connects to a PC for convenient transfer of current or stored data. An integrated data logger with adjustable intervals provides automatic recording of all measurement data. Date, time, and ID number supports GLP. Additionally, the user can enter the sensor serial number for complete documentation. All data can be transferred in an easy-to-process .csv format; an Add-in tool for Microsoft® Excel supplied by WTW allows import of formatted measurement and calibration records directly into Excel spreadsheets.

Documentation via built-in printer
The inoLab® 7310P option offers a built-in printer for printing of measurement and calibration results on high quality paper with a readability of up to 7 years.

Microsoft and Excel are registered trademarks of Microsoft Corporation.

CMC function

Convenient to operate
The graphic display is easy-to-read for convenient and secure operation – at a glance all critical information is presented.

pH measurement
Data optimization is achieved with the new CMC function that monitors the calibration range and indicates if the measurement range is between calibration points.

All meters are available in application sets including sensors, electrode stand and power supply.
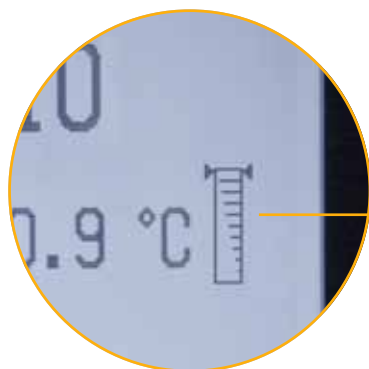
Securely traceable ...

... with the innovative inoLab® Multi 9310 IDS.

- **Multi-parameter system with IDS sensors**

- **Digital sensor recognition**

- **Intelligent sensor status with QSC**

QSC function, display after initial calibration

Innovative
Plug and Measure: An intelligent solution for any laboratory. The inoLab® Multi 9310 is exceptionally suited for all laboratories that require complete documentation or want to have the most efficient and error-free measurement processes.

Intelligent and digital sensors provide sophisticated electrochemistry measuring systems in a single meter. The new inolab® Multi 9310 IDS measures pH, ORP, conductivity, and dissolved oxygen (optical method).

The digital conversion of the measuring signal takes place in the IDS sensors which transfer readings to the inoLab® Multi 9310 IDS. Automatically sensor specific data including description, serial number and calibration status are sent to the meter.

Complete documentation
The USB interface provides easy connection to a PC; all data is transferred in the .csv format directly to Excel. All information about the data and measuring system is downloaded and the user administration feature provides traceability.
If desired, choose the inoLab® 9310P with optional built-in printer for printing of all measurement and calibration results.

All meters are also available in application sets including sensors, electrode stand and power supply.

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pH

O$_2$

Cond

I ntelligent
Intelligent Sensors store an ID

D igital
Digital Processing and Data Transfer of Sensor measurement

S ensors
Sensors for each application

Calibration unmatched
The unique QSC feature provides a system to monitor the condition of the IDS pH electrode. An initial calibration is performed and then the sensor status is monitored over time. The electrode readings are compared to the initial calibration parameters. The 9310 IDS with QSC combined with the CMC function for measuring range monitoring (see inolab® 7310), is ideal for pH measurements in quality assurance applications.

Compatible
For seldom used special pH electrodes with a S7 plug head, an adapter cable is available for easy connection to the meter.

Technical Data

	inoLab® pH 7110	inoLab® pH 7310	inoLab® Oxi 7310	inoLab® Cond 7110	inoLab® Cond 7310	inoLab® Multi 9310 IDS
Parameter	pH, mV, Temperature	pH, mV, Temperature	Saturation, concentration, partial pressure, temperature	Conductivity, salinity, TDS, temperature	Conductivity, spec. resistance, salinity, TDS, temperature	pH, mV, saturation, concentration, partial pressure, conductivity, spec. resistance, salinity, TDS, temperature
Digital/IDS sensor	–	–	–	–	–	●
Temperature compensation	Automatic/manual	Automatic/manual	Automatic	Automatic/none	Automatic/none	Senor dependent
Calibration points	1 to 3	1 to 5	1	1	1	Senor dependent
Calibration records	1	10	10	1	10	Senor dependent
Calibration timer	●	●	●	●	●	●
Memory entries	–	500/5000*	500/5000*	–	500/5000*	500/5000*
Logger	–	●	●	–	●	●
Interface	–	Mini USB	Mini USB	–	Mini USB	Mini USB
GLP/AQA supporting	–	●	●	–	●	●
Display	LCD customized	backlit b/w graphic	backlit b/w graphic	LCD customized	backlit b/w graphic	backlit b/w graphic
Printer option	–	●	●	–	●	●
Additional	–	CMC, input serial number of sensor	input serial number of sensor	–	input serial number of sensor	CMC, QSC, user administration
Power supply	Battery or universal power supply	Battery or universal power supply	Battery or universal power supply	Battery or universal power supply	Battery or universal power supply	Battery or universal power supply

* manual/automatic

Ordering Information

inoLab®		Order No.
inoLab® pH 7110 △	Easy-to-operate basic pH/mV benchtop meter with DIN socket for routine measurement. For AC and battery operation. Single meter with universal power supply, stand and operation manual.	1AA110
inoLab® pH 7110 BNC SET 7	Same as 1AA110, but BNC connector, kit including pH elektrode SenTix® 42, buffer 4, 7 and 10.01, 3 mol/l KCl	1AA127
inoLab® pH 7310 △	Convenient, menu controlled pH/mV meter with DIN connector for measurements/documentation according GLP/AQA. For AC and battery operation. Single meter with universal power supply, stand, operation manual, CD-ROM including software and USB cable.	1AA310
inoLab® pH 7310P BNC	Same as 1AA310, but with BNC connector and including built-in printer	1AA320P
inoLab® Oxi 7310 △	Professional dissolved oxygen meter, menu controlled, for measurements/documentation according GLP/AQA. For AC and battery operation. Meter with universal power supply, stand, operation manual, software and USB cable.	1BA300
inoLab® Oxi 7310 SET 1	Same as 1BA300, but in kit including galvanic dissolved oxygen sensor CellOx® 325, cleaning solution, electrolyte, polishing stripe, replacement membrane caps	1BA301
inoLab® Cond 7110 △	Easy-to-operate basic conductivity benchtop meter for routine measurement. For AC and battery operation. Meter with universal power supply, stand and operation manual.	1CA100
inoLab® Cond 7110 SET 1	Same as 1CA100, but in kit including 4-electrode graphite cell TetraCon® 325, 0.01 mol/l KCl standard solution	1CA101
inoLab® Cond 7310 △	Precise and convenient conductivity meter, menu controlled, for measurements/documentation according GLP/AQA. For AC and battery operation. Meter with universal power supply, stand, operation manual. software and USB cable.	1CA300
inoLab® Cond 7310 SET 1	Same as 1CA300, but in kit including 4-electrode graphite cell TetraCon® 325, 0.01 mol/l KCl standard solution	1CA301
inoLab® Multi 9310 △	Digital multi-parameter benchtop meter for IDS sensors, for measurements/documentation according GLP/AQA. Meter with universal power supply, stand and operation manual. software and USB cable.	1FD350
inoLab® Multi 9310 SET 2	Same as 1FD350, but in kit including digital IDS pH electrode SenTix® 980, buffer 4, 7 and 10.01, 3 mol/l KCl, software and USB cable.	1FD352
QSC Kit	Initial calibration kit for IDS pH electrodes. Box with three ampoules: pH 4.01; pH 6.86; pH 9.18	109 830
RP 58 HQ	High quality thermo printing paper for inoLab® 7310P/9310P. Width 58 mm, Length 9 m. Long lasting readability	205 115

△ DIN kits not available in North America　　　　*Other inoLab® kits upon request.*