

inoLab® Series, WTW®

inoLab® laboratory instruments are perfectly adapted for use in modern laboratories. They have clearly arranged, user-friendly keypads, smooth surfaces that are easy to clean, and self-explanatory user menus. Depending on the model series, they are available with segment (7110) or backlit black-and-white graphic display (7310) and USB interface. All units come with power pack with an all-purpose connector and practical stand with sensor holder. For units with integrated interface, data transmission cable and software are comprised in the delivery.

On request, inoLab® units are available in application-specific sets with sensors and accessories. All units can be operated either with power pack or with battery. The inoLab® 7310 has an integrated memory and interface as a standard; optionally, it is available with integrated 58 mm thermotransfer printer for direct documentation of results in compliance with GLP.



① inoLab® pH 7110

A simple pH/mV laboratory measuring instrument for all tasks where the focus is on getting reliable measured values fast and without hassle. A large, clearly legible LCD segment display makes it easy to read to data, the clearly arranged keypad ensures smooth operation. The automatic AutoRead function provides for correct, reproducible measuring results. An integrated timer reminds the user when the next calibration is due.

Technische Data:	all values ± 1 digit
pH:	-2.0 to 20.0 ± 0.1 pH -2.00 to 20.00 ± 0.01 pH -2.000 to 19.999 ± 0.005 pH
mV:	$\pm (1200.0 \pm 0.3)$ mV $\pm (2000 \pm 1)$ mV
Calibration:	1-, 2- or 3-point WTW technical buffers or DIN/NIST
Temperature:	-5.0 to 105.0°C ± 0.1 °C

Article	Version	Order No.
inoLab® pH 7110	Single device incl. accessories	10 81 27110
inoLab® pH 7110 set 2	Device incl. SenTix® 41 and accessories	10 81 27112
inoLab® pH 7110 set 4	Device incl. SenTix® 81 and accessories	10 81 27114

② inoLab® pH 7310

pH measurement with documentation in compliance with GLP, on request also with integrated printer: This is the inoLab® pH 7310 or inoLab® pH 7310P. With state-of-the-art backlit graphic display with user menus for easy, intuitive operation. The mini USB-B interface ensures fast data transfer and is used for firmware updates. The integrated memory can store up to 5000 data records with time of day, date, and ID in compliance with GLP. Housing and keypad surfaces are easy to clean.

Technical data:	all values ± 1 digit
pH:	-2.0 to 20.0 ± 0.1 pH -2.00 to 20.00 ± 0.01 pH -2.000 to 19.999 ± 0.005 pH
mV:	$\pm (1200.0 \pm 0.3)$ mV $\pm (2500 \pm 1)$ mV
Temperature:	-5.0 to 105.0°C ± 0.1 °C
Calibration:	1-, 2-, 3-, 4-, 5-point WTW technical buffer
Calibration storage:	up to 10 calibrations
Display:	backlit LCD display
Data storage:	manual 500/5000 automatic
Interface:	mini USB-B

Article	Version	Order No.
inoLab® pH 7310	Single device incl. accessories	10 81 27310
inoLab® pH 7310 set 2	Device incl. SenTix® 41 and accessories	10 81 27312
inoLab® pH 7310 Set 4	Device incl. SenTix® 41 and accessories	10 81 27314
inoLab® pH 7310P	Device with integrated printer incl. accessories	10 81 27316



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③ inoLab® Cond 7110

The inoLab® Cond 7110 has all key functions for conductivity measurement, such as adjustable reference temperature and various methods for temperature compensation. A large, clearly legible LCD segment display makes it easy to read data, the clearly arranged keypad ensures smooth operation. The automatic AutoRead function provides for correct, reproducible measuring results.

Technical data:	all values ± 1 digit
Conductivity:	0.00 to 1000 mS/cm ± 0.5 % of value 0.00 to 19.99 μ S/cm for $k = 0,1 \text{ cm}^{-1}$
Salinity:	0.0 to 70.0 (acc. to IOT)
Temperature:	-25.0 to 125.0°C ± 0.1 °C
Cell constants:	0.450 to 0.500 cm^{-1} 0.09 to 0.110 cm^{-1} 0.800 to 0.880 cm^{-1}
AutoRead:	automatic
Tref:	20°C/25°C
Temperature compensation:	nLF, lin 0.000 to 3.000 %, can be switched off
Power supply:	universal power supply 100 to 240 V, 50/60 Hz, 4 $\times$ 1,5 V AA or 4 $\times$ 1,2 V NiMH rechargeable batteries

Article	Version	Order No.
inoLab® Cond 7110	Single device incl. accessories	10 81 27111
inoLab® Cond 7110 set 1	Device incl. TetraCon® 325 and accessories	10 81 27113

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④ inoLab® Cond 7310

Conductivity measurement with documentation in compliance with GLP, on request also with integrated printer: This is the inoLab® Cond 7310 and the inoLab® Cond 7310P. The inoLab® Cond 7310 can optionally be connected to a wide range of different standard and special conductivity measurement cells and has an automatic and manual temperature compensation function (can also be switched off for measurement pursuant to pharmacopeia) with linear and non-linear function for ultra-pure water and natural water pursuant to EN 27 888.

Technical data:	all values ± 1 digit
Conductivity:	0.00 to 1000 mS/cm $\pm 0,5$ % from value
additional:	0.000 to 1.999 μ S/cm, $K = 0.01 \text{ cm}^{-1}$ 0.00 to 19.99 μ S/cm, $K = 0.1 \text{ cm}^{-1}$
Spezific resistance:	0.00 to 20 MOhm cm
Salinity:	0.0 to 70.0 (acc. to IOT)
TDS:	0 to 1999 mg/l, 20 to 199.9 g/l
Temperature:	5.0 to 105.0°C ± 0.1 °C
Cell constants:	fix 0,01 cm^{-1} , calibratable 0.450 to 0.500 cm^{-1} 0.800 to 0.880 cm^{-1} , adjustable 0.09 to 0.110 cm^{-1} 0.250 to 25.0 cm^{-1}
Calibration:	1-point
Tref:	20°C/25°C
Temperature compensation:	none, nLF, 0.000 to 10.00 %/K
Calibration storage:	up to 10 calibrations
Data storage:	manual 500/5000 automatic
Logger:	manual/time-controlled

Article	Version	Order No.
inoLab® Cond 7310	Single device incl. accessories	10 81 27311
inoLab® Cond 7310 set 2	Device incl. TetraCon® 325 and accessories	10 81 27313
inoLab® Cond 7310P	Device with integrated printer and accessories	10 81 27317

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inoLab® Oxi 7310

Dissolved-oxygen measurement with documentation in compliance with GLP, on request also with integrated printer: This is the inoLab® Oxi 7310 and the inoLab® Oxi 7310P. The inoLab® Oxi 7310 works with the time-proven electroplated dissolved-oxygen sensors by WTW, CellOx® 325 and StirrOx® G. A calibration history of up to 10 stored calibration logs provides information on changes in the sensor behavior. Calibration against external standard is possible comprising an automatic compensation of temperature, air pressure, and salinity.

Technical data:	all values ± 1 digit
Dissolved oxygen	
Concentration:	0.00 to 19.99 mg/l ± 0.5 % value 0 to 90 mg/l ± 0.5 %
Saturation:	0.0 to 199.9 % ± 0.5 % from value 0 to 600 % ± 0.5 from value
Partial pressure:	0 to 199.9 hPa, 0 to 1250 hPa
Temperature:	-5.0 to 105.0°C ± 0.1 °C
Calibration:	1-point air calibration or against external standard
Calibration storage:	up to 10 calibrations
Display:	back-lit LCD
Datenspeicher:	manual 500/5000 automatic
Logger:	manual/time-controlled

Article	Version	Order No.
inoLab® Oxi 7310	Single device incl. accessories	10 81 27320
inoLab® Oxi 7310 set 1	Device incl. CellOx® 325 and accessories	10 81 27321
inoLab® Oxi 7310 set 4	Device incl. StirrOx® G and accessories	10 81 27324
inoLab® Oxi 7310P	Device with integrated printer and accessories	10 81 27325

