

Multi



Laboratory Multi-Parameter Instruments

In modern laboratories a large number of different measurements need to be made, but the available space is limited. The inoLab® multi-parameter instruments reduce not only the space requirements, but also impress with their outstanding price-performance ratio.

inoLab® Level 3

inoLab® pH/Oxi, inoLab® pH/Cond and inoLab® Multi Level 3

As high-end instruments the inoLab® pH/Oxi Level 3, the inoLab® pH/Cond Level 3 and inoLab® Multi Level 3 have a resolution of 0.001 pH units. They also have all the functions necessary for making ion selective measurements. With the inoLab® pH/Oxi Level 3 and the inoLab® Multi Level 3 oxygen is measured as %, mg/l or mbar. The inoLab® pH/Cond Level 3 and the inoLab® Multi Level 3 can be used to measure the salinity and TDS (Total Dissolved Solids) as well as the conductivity and specific resistance.

The optional built-in printer as well as the graphics display with operator guidance increase the measuring comfort and allow QA-conform documentation.

Features

- 5-point calibration by linear regression
- Freely selectable buffer sets
- Graphic evaluation possible
- Built-in digital plotter
- Connection for bar-code reader or PC keyboard
- Selectable instrument language
- Limit input with acoustic alarm
- Extended GLP functions
- Free-of-charge downloads for "inoLab® pilot" or terminal



شرکت ابزار طب
بازار کسب و کار
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NEW



inoLab® Level 1

inoLab® pH/Oxi, inoLab® pH/Cond and inoLab® Multi Level 1

The routine instruments inoLab® pH/Oxi Level 1 and inoLab® pH/Cond Level 1 are favorably-priced models for initial processing of pH / oxygen and pH / conductivity measurements respectively. The inoLab® Multi Level 1 allows the measurement of pH and ORP, oxygen content, conductivity and salinity as well as the temperature. Their large multifunction display means that they are suitable for standard measurements where GLP-documentation is not required.

Features

- Easy-to-clean touch-sensitive keypad
- Simplified operator convenience
- Bench and wall-mounted models
- Mains-independent
- Country-specific units
- Application-oriented displays

Technical data

	inoLab® pH/Oxi, pH/Cond, Multi	inoLab® pH/Oxi, Multi	inoLab® pH/Cond, Multi
Level 1	pH measurement	Oxygen measurement	Conductivity measurement
Measuring range/Resolution	pH: -2.00... +16.00 mV: -199.9... +199.9 -1999... +1999	O ₂ conc.: 0.00... 19.99 mg/l 0.0... 90 mg/l* O ₂ sat.: 0.0... 199.9% 0... 600%* O ₂ p.press.: 0.0... 199.9 mbar 0... 1250 mbar <i>* depends on oxygen sensor and medium</i>	0.0 µS/cm... 500 mS/cm in 5 ranges or AutoRange, in addition at: K=0.01 cm ⁻¹ 0.000... 1.999 µS/cm K=0.1 cm ⁻¹ 0.00... 19.99 µS/cm Temperature: -5.0... +99.9 °C Salinity: 0.0... 70.0 TDS: 0... 1999 mg/l Spec. resistivity 0.000... 1999 MΩcm
Accuracy (± 1 digit)	pH: ± 0.01 mV: ± 0.2, ± 1	0.5% of value	± 1% of value
Temperature compensation	Automatic -5... +99.9 °C with TFK 325 or built-in temperature sensor, or manual -20... +130 °C	Automatic via IMT compensation 0... 40 °C	Linear and non-linear functions for ultrapure water and natural waters to DIN 38 404 and EN 27 888; can be switched off
Temp. measuring range Accuracy (± 1 digit)	-5.0... +99.9 °C ± 0.1 K	0... +50 °C ± 0.1 K	-5.0... +99.9 °C ± 0.1 K
AutoRead	For pH, oxygen and conductivity		
Calibration	MultiCal® 2-point ConCal® 1/2-point	With OxiCal®-SL	Calibration with 0.01 mol KCl
Data output	Via display		

Level 3	pH measurement	Oxygen measurement	Conductivity measurement
Measuring range/Resolution	pH: -2.000... +16.000 -2.00... +16.00 mV: -999.9... +999.9 -1999... +1999 ISE concentration: 0.01 ... 1999 mg/l	O ₂ conc.: 0.00... 19.99 mg/l 0.0... 90 mg/l* O ₂ sat.: 0.0... 199.9% 0... 600%* O ₂ p.press.: 0.0... 199.9 mbar 0... 1250 mbar <i>* depends on oxygen sensor and medium</i>	0.0 µS/cm... 500 mS/cm in 5 ranges or AutoRange, in addition at: K=0.01 cm ⁻¹ 0.000... 1.999 µS/cm K=0.1 cm ⁻¹ 0.00... 19.99 µS/cm Temperature: -5.0... +99.9 °C Salinity: 0.0... 70.0 TDS: 0... 1999 mg/l Spec. resistivity 0.000... 1999 MΩcm
Accuracy (± 1 digit)	pH: ± 0.003 ± 0.01 mV: ± 0.2, ± 1	0.5% of value	± 1% of value
Temperature compensation	Automatic -5... +99.9 °C with TFK 325 or built-in temperature sensor, or manual -20... +130 °C	Automatic via IMT compensation 0... 40 °C	Linear and non-linear functions for ultrapure water and natural waters to DIN 38 404 and EN 27 888; can be switched off
Temp. measuring range Accuracy (± 1 digit)	-5.0... +99.9 °C ± 0.1 K	0... +50 °C ± 0.1 K	-5.0... +99.9 °C ± 0.1 K
AutoRead	For pH, oxygen and conductivity		
Calibration	MultiCal® 2-, 3- and 5-point ISECal, 2 and 3-point ConCal® 1/2-point	With OxiCal®-SL	Calibration with 0.01 mol KCl
Data memory	2000 records		
Data output	Via display, PC or interface		
Interface	Serial RS 232 interface, adjustable Baud rate, bidirectional		

inoLab® Multi-Parameter SETs	Order No.
inoLab® pH/Oxi Level 1	1D10-111410
inoLab® pH/Oxi Level 3	1D30-111410
inoLab® pH/Oxi Level 3	1D32-101410
inoLab® pH/Cond Level 1	1E10-111401
inoLab® pH/Cond Level 3	1E30-111401
inoLab® pH/Cond Level 3	1E32-101401
inoLab® Multi Level 1	1F10-111411
inoLab® Multi Level 3	1F30-111411
inoLab® Multi Level 3	1F31-111411
inoLab® Multi Level 3	1F32-101411

Other electrodes/sensors in SET or BNC versions are available on request