xylem
Let's Solve Water

Meters and Electrodes

pH, ISE, COND AND O_2 | PRECISE - RELIABLE - SELECTIVE
IN LAB AND FIELD

SI Analytics

a xylem brand

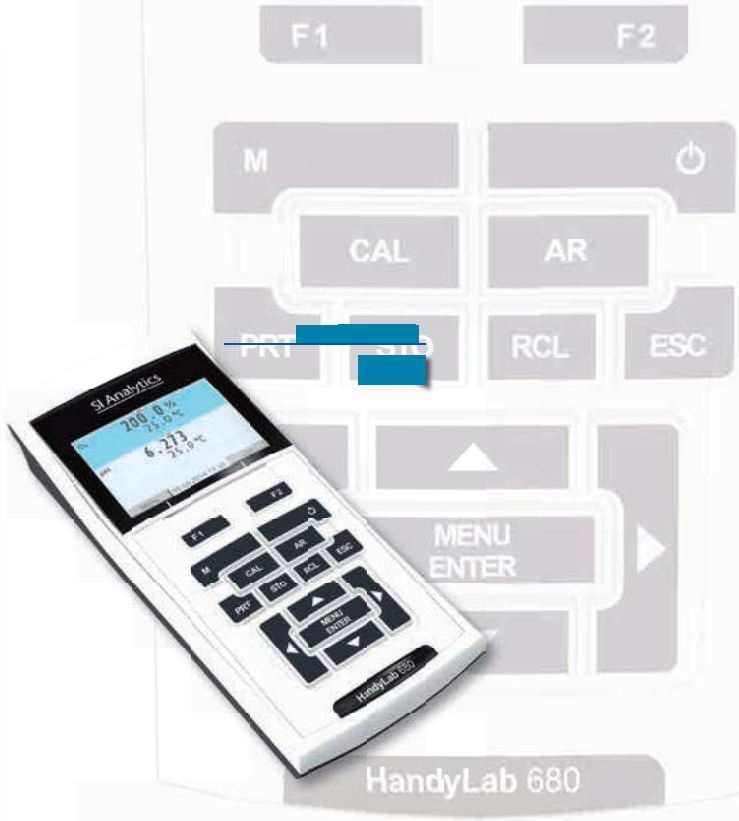
1.2 HandyLab MKII

Our 2nd generation of Handylab devices offers analog or digital options for the measurement of pH, ORP, dissolved oxygen and conductivity in the lab and in the field.

While our Handylab 100 pH and Handylab 200 Cond offer a single traditional analog channel, our IDS series Handylab 600 and 680 devices take full advantage of our new digital technologies. The digital HandyLab 600 concentrates on the pH measurement as a one-channel device, whereas the HandyLab 680 allows you to measure any two parameters simultaneously; pH, ORP, conductivity or oxygen.
IDS stands for "intelligent, digital sensors" and means that the analog measuring signal is converted into a digital measuring value in the sensor. This protects the signal from external interferences, such as moisture, electro-magnetic fields or pulses. The higher measuring accuracy raises confidence in your readings to a whole new level. IDS sensors send their type designation and serial number, i.e. they identify themselves to the meter automatically. This information is always part of the documentation. Calibration values are stored in the IDS sensor and transferred to the measuring device avoiding unnecessary recalibration as would be needed for traditional analog devices.Especially with field devices, the increased comfort is considerable as the IDS sensors can be calibrated in the laboratory under optimal conditions and simply need to be connected in the field.

- The advanced speed and precision of our benchtops in a portable and durable design.
- Specifically designed for mobile use
  - Handy, battery-operated
  - Keypad made from a continuous silicone mat and therefore waterproof with noticeable key click, even when used with gloves.
- P67
- Reproducible results due to active automatic AutoRead function with independent detection of stabile measuring values.
- CMC (Continuous Measurement Control) makes sure that the pH measuring values and the calibration area remain in sight and that the measurement is conducted in the optimal range.
- Generous data storage in all devices.
- Backlit graphics display in all versions.
- A case for the safe storage and transport is always included with these devices.

Benefits HandyLab MKII



Selection chart

HandyLab	100	200	600	680
Analog	■	■		
IDS (Intelligent Digital Sensor)			■	■
One channel	■	■	■	
Two channel				■
pH/ORP	■		■	■
Temperature	■	■	■	■
Conductivity		■		■
DO				■
CMC-Function	■		■	■
1- to 5-point calibration with 22 stored buffer sets	■		■	■
QSC intelligent sensor evaluation			■	■
User administration				■
Autoread	■	■	■	■
Data memory	■	■	■	■
Interface Mini USB-B			■	■
Interface USB-A				■
Info display	■	■	■	■
Backlit B/W graphical display	■	■	■	
Backlit colored graphical display				■
Battery (Typ AA)	■	■	■	
Rechargable AA from included power supply.				■
Watertight housing and keypad (built of one piece of silicone mat)	■	■	■	■
IP67 certified	■	■	■	■

Xylem Analytics Germany Sales GmbH & Co. KG, SI Analytics
Hattenbergstr. 10 · 55122 Mainz · Germany · Tel: +49 6131 665111 · Fax: +49 6131 665001 · Info.si-analytics@xyleminc.com
www.si-analytics.com

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1.2.2 HandyLab 200

The portable Allrounder for conductivity measurements

Due to the wide selection of 2 and 4 pole measuring cells made by SI Analytics, the system consisting of a sensor and HandyLab 200 can be used for a variety of purposes such as conductivity, salinity, TDS and specific gravity. Autoread provides a stabile, precise measuring value. The backlit display and waterproof design make it especially ideal for field use.
For easy reference, the HandyLab 200 has a storage capacity for up to 200 data sets, which can be put out on the display.

Technical data

Measuring range/ resolution/ accuracy (all values +/-1 digit)	Conductivity	0.0 ... 1000 mS/cm +/- 0.5 % from average
		0.000 ... 1.999 µS/cm, K= 0.01 cm^{-1} +/- 0,5 % of the mean value
		0.00 ... 19.99 µS/cm, K= 0.010 cm^{-1}; K=0.100 cm^{-1} +/- 0,5 % of the mean value
	Specific resistance	1.000 Ohm cm ... 199.9 MOhm cm +/- 0,5 % of the mean value
	Salinity	0.0 ... 70.0 (IOT)
	TDS	0 ... 1999 mg/l, 0 bis 199.9 g/l
	Temperature	-5.0 ... 105.0 °C +/- 0.1 °C
Cell constant	Fixed	0.475 cm^{-1}, 0.100 cm^{-1}, 0.010 cm^{-1}
	Calibratable (1 point)	0.450 to 0.500 cm^{-1}, 0.585 ... 0.715 cm^{-1}, 0.800 ... 0.880 cm^{-1}, Standard: 0.01 mol/L KCl
	Adjustable	0.250 ... 25.000 cm^{-1}; 0.090 ... 0.110 cm^{-1}
Temperature compensation	Adjustment	Automatic/manual
	Temperature coefficent	nLF: none linear function according to EN 27 888 and ultrapure water function
		Linear compensation 0.000 ... 3.000 %/K
		No Compensation
Handling	AutoRead	Automatic/manual
	Celsius/Fahrenheit	Yes
	Display	LCD B/W Graphic backlit
	Data memory	Manual 200 data sets
	Logger	Manual
	Power supply	4 x 1.5 V AA or 4 x 1.2 V NiMH rechargeable battery
	Continious operating time	Up to 800 h without/ 100 h with backlight
	Sensor connector	8 Pole
	Waterproof	IP67

- Designed for mobile use.
- Reproducible results due to active automatic AutoRead function.
- Data storage with output on display.
- Backlit graphic display with clear text menu.
- Waterproof IP67.

Benefits HandyLab 200

HandyLab

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