C6010

pH - mV - Conductivity - Resistivity - Salinity - TDS - Temperature

pH: -2...+16 pH ±2000 mV mV: 0...2000 mS/cm Conductivity: 0...200 MΩ.cm Resistivity: Salinity: 0.0...70.0 TDS: 0...100 g/l -5...+105°C Temperature:

One channel for all ranges One temperature channel



Multi-point (1...5) calibration for more linearity.

Selectable resolution from 0.001 pH to 0.1 pH.

Automatic calibration with any of eleven pre-programmed and five user specified pH buffers. Create your own buffer/temperature

Accepts pH electrodes with any zero point (Eo) between ±999 mV.

mV

Features mV calibration for accurate ORP measurements.

Selectable resolution from 0.1 mV to 1 mV.

Conductivity

Multi-point (1...3) calibration for more linearity.

An electrode with a typical cell constant of 1 cm⁻¹ (standard) permits to measure from 0.01 μ S/cm to 200 mS/cm in five ranges.

An electrode with a typical cell constant of 0.1 cm⁻¹ permits to measure from 0.001 µS/cm to 20 mS/cm in five ranges.

An electrode with a typical cell constant of 10 cm⁻¹ permits to measure from 0.1 μ S/cm to 2000 mS/cm in five ranges.

Automatically selects correct range and frequency.

Selectable reference temperature: 20° or 25°C.

Automatic calibration with any of three preprogrammed and three user specified standard solutions. Create your own standard/ temperature tables!

Allows to lock the initial conductivity range to avoid non-linear titration curves.

Accurate low conductivity measurements by eliminating the capacitive component of the electrode and its cable (avoid the use of long cables!).

Temperature

Reads temperatures with 0.1°C resolution.

Manual or automatic temperature compensation.

Calibrates temperature probe for quality measurements.

Display

Large bright LCD screen for better readability.

A white backlight automatically illuminates when operated on the mains.

Stability indicator prompts the user when readings should be tak-

Hold function allows to freeze the display for convenient reading or recording.

The interactive LCD screen provides step by step instructions in the language of your choice (English, Dutch, French, German).

Real-time clock displays time and date.

Shows a GLP report on the LCD screen.

CODE	DESCRIPTION	
C6010	Meter only (without electrodes) + USB cable + 4 NiMH batteries + mains adaptor	
C6010X	Meter kit without electrodes: C6010 + $2x50$ ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + 50 ml conductivity standard (0.01 M KCl) + carrying case	
C6010P	Meter kit for pH: C6010 + pH/ATC electrode SP10T + $2x50$ ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + carrying case	
C6010K	Meter kit for conductivity: C6010 + conductivity/ATC electrode SK10T + 50 ml conductivity standard (0.01 M KCl) + carrying case	
C6010T	Meter kit complete: C6010 + pH/ATC electrode SP10T + conductivity/ ATC electrode SK10T + $2x50$ ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + 50 ml conductivity standard (0.01 M KCl) + carrying case	
SH300	Flexible electrode holder (optional)	
A4049	Car adaptor, 12 V (optional)	
→ Add a \$-sign for US plug versions, e.g.: C6010\$		
→ Add a U-sign for UK plug versions, e.g.:C6010U		

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Inputs

One common input for all ranges + corresponding reference input. One input for a Pt1000 automatic temperature probe.

Low voltage DC input for e.g. a mains adaptor.

Outputs

Galvanically isolated USB communication port for connection to a computer.

Data-logging

Up to 12000 data sets can be stored manually or at a programmable interval.

Allows to mix data from all ranges in the same table.

Freely downloadable data acquisition software enables to view, store and edit the measurements in your computer.

Cabinet

Robust dust and splash-proof cabinet.

Special features

Three year warranty.

Calibration reminder 0...999 h.

Programmable recorder output.

Programmable identification number for use with a printer or computer.

Password protection prevents any unauthorised modification of the instrument's settings.

Two-way communication with a printer or computer using USB.

Mains and rechargeable battery operation with programmable automatic switch-off.

Shows percentage of remaining battery capacity.

Optional 12 V car adaptor.

All procedures for a "Good Laboratory Practice" are on board.

Pre-programmed standards

pH buffers: 1.68, 2.00, 4.00, 4.01, 6.87, 7.00, 9.18, 9.21, 10.01, 12.00, 12.45 (at 25°C).

Conductivity: 1413 μ S/cm, 12.88 mS/cm, 111.8 mS/cm (at 25 $^{\circ}$ C).



Specifications		C6010
рН	Range	-2+16 pH
•	Resolution	0.001 pH
	Accuracy	0.1% ± 1 digit
	Calibration	15 points
	Buffers	9 pre-programmed
	,,,	5 user specified
	Temperature compensation	-5+105°C
	ISO-pH	68 pH
	Slope	80120%
	Zero point (Eo)	±999 mV
mV	Range	±2000 mV
	Resolution	0.1 mV
	Accuracy	0.1% ± 1 digit
	Calibration	1 point
CONDUCTIVITY	Range (cc dependent)	02000 mS/cm
	Resolution (cc dependent)	0.001 µS/cm
	Accuracy	0.5% f.s. of range
	Calibration	13 points
	Standards	3 pre-programmed
		3 user specified
	Cell constant (cc)	0.1/1/10 cm ⁻¹ ±30%
	Temperature compensation	-5+105°C
	Reference temperature	20° or 25°C
	Temperature coefficient	natural waters (EN27888)
	Range lock	✓
	Capacitive compensation	✓
RESISTIVITY	Range	0200 MΩ.cm
	Resolution	1 Ω.cm
SALINITY	Range	0.070.0
	Reference temperature	15°C
TDS	Range	0100 g/l
	Resolution	0.01 mg/l
TEMPERATURE	Range	-5+105°C
	Resolution	0.1°C
	Accuracy	0.1°C
	Calibration	1 point
INPUTS	Measurement	BNC, 10 ¹² Ω
	Temperature	2 banana, for Pt1000
CALIBRATION	Reminder	0999 h
	GLP	✓
DISPLAY	LCD	128x64 pixels
	White backlight	✓
	Hold function	✓
	Selectable resolution	✓
	Real time clock	✓
COMMUNICATION	Interface with computer	USB, insulated
DATA-LOGGING	Data sets	12000
	Modes	all (6)
	Manual or timed	✓
	Interval	19999 s
SECURITY	Identification number	✓
	Password protection	✓
AMBIENT CONDITIONS	Temperature	040°C
	Humidity	095%, non condensing
POWER SUPPLY	Mains	100240 VAC, 50/60 Hz
. O WER SOLITE	Low voltage	915 VDC
	Batteries	4x1.2 V. AA. NiMH
DIMENSIONS	Batteries WxDxH	4x1.2 V, AA, NiMH
DIMENSIONS WEIGHT	Batteries WxDxH Meter	4x1.2 V, AA, NiMH 12x25x5 cm 600 g



SP10T

- pH + ATC
- Epoxy body, 1 m cable 0...14 pH, 0...80°C
- Single junction, sealed

SK10T

- Conductivity + ATC
- Epoxy body, 1 m cable 1 cm⁻¹, 0...80°C
 - Dual graphite plates

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