



Dissolved oxygen

Operates with a galvanic dissolved oxygen electrode requiring no polarisation time and no zero calibration.

Selectable resolution from 0.01 mg/l (0.1%) to 0.1 mg/l (1%).

Manual salinity compensation 0-40.

Automatic air pressure compensation 600-1300 hPa.

Temperature

Reads temperatures with 0.1 °C resolution.

Manual or automatic temperature compensation.

Calibrates temperature probe for quality measurements.

pH:	-2...+16 pH
mV:	±2000 mV
Ion:	0.01 ng/l...100 g/l
Conductivity:	0...2000 mS/cm
Resistivity:	0...200 MΩ.cm
Salinity:	0...70.0
TDS:	0...100 g/l
Dissolved oxygen:	0...60 mg/l
	0...600%
Air pressure:	600...1300 hPa
Temperature:	-5...+105 °C

Ion: C6030 only

One channel for all measurements!

pH

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 tables!*

Accepts pH electrodes with any zero point (E₀) between ±999 mV.

mV

Features mV calibration for accurate ORP measurements.

Selectable resolution from 0.1 mV to 1 mV.

Ion (C6030 only)

Direct concentration measurement.

Multi-point (2...5) calibration and an additional blank correction for measuring low concentrations.

Stores calibration curves for up to 9 different electrodes.

Conductivity

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

An electrode with a typical cell constant of 1 cm⁻¹ permits to measure from 0.01 µS/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 µS/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!).

CODE	DESCRIPTION
C6010	pH/conductivity/DO meter + USB cable
C6030	pH/Ion/conductivity/DO meter + USB cable
C60x0P	Meter kit for pH: meter + pH/ATC electrode SP10T + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + carrying case
C60x0K	Meter kit for conductivity: meter + conductivity/ATC electrode SK10T + 50 ml conductivity standard (0.01 M KCl) + carrying case
C60x0Z	Meter kit for oxygen: meter + dissolved oxygen electrode SZ10T + carrying case
C60x0T	Meter kit complete: meter + pH/ATC electrode SP10T + conductivity/ATC electrode SK10T + dissolved oxygen electrode SZ10T + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + 50 ml conductivity standard (0.01 M KCl) + carrying case
C60x0X	Meter kit without electrodes: meter + 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)
→ Supplied with a mains adaptor (100...240 VAC, EU/US) + 4 NiMH batteries (add a UK-sign for UK plug versions, e.g.:C6030-UK)	

Inputs

One common input for all ranges + corresponding reference input.

One input for a Pt1000 automatic temperature probe.

Outputs

Galvanically isolated USB communication port for connection to a computer.

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 taken.

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.

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.

Download **free data acquisition software** from www.consort.be 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.

GLP

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 µS/cm, 12.88 mS/cm, 111.8 mS/cm (at 25 °C).



SPECIFICATIONS		C60x0
pH	Range	-2...+16 pH
	Resolution	0.001 pH
	Accuracy	0.1% ± 1 digit
	Calibration	1...5 points
	Buffers	11 pre-programmed 5 user specified
	Temperature compensation	-5...+105 °C
	ISO-pH	6...8 pH
	Slope	80...120%
mV	Zero point (Eo)	±999 mV
	Range	±2000 mV
	Resolution	0.1 mV
	Accuracy	0.1% ± 1 digit
ION (C6030 only)	Calibration	1 point
	Range	0.01 ng/L... 100 g/L
	Resolution	3 digits
	Accuracy	0.5% ± 1 digit
CONDUCTIVITY	Calibration	2...5 points + blank 9 individual curves
	Standards	3 pre-programmed 3 user specified
	Cell constant (cc)	0.07...13 cm ⁻¹
	Temperature compensation	-5...+105 °C
	Reference temperature	20° or 25 °C
	Temperature coefficient	natural waters (EN27888)
	Range lock	✓
	Capacitive compensation	✓
	Range	0...2000 mS/cm
	Resolution (cc dependent)	0.001 µS/cm
	Accuracy	0.5% f.s. of range
RESISTIVITY	Calibration	1...3 points
	Standards	3 pre-programmed 3 user specified
SALINITY	Cell constant (cc)	0.07...13 cm ⁻¹
	Temperature compensation	-5...+105 °C
TDS	Reference temperature	20° or 25 °C
	Temperature coefficient	natural waters (EN27888)
DISSOLVED OXYGEN	Range lock	✓
	Capacitive compensation	✓
TEMPERATURE	Range	0...200 MΩ.cm
	Resolution	1 Ω.cm
AIR PRESSURE	Range	0.0...70.0
	Reference temperature	15 °C
INPUTS	Range	0...100 g/L
	Resolution	0.01 mg/L
CALIBRATION	Range	0...60 mg/L (0...600%)
	Resolution	0.01 mg/L (0.1%)
	Accuracy	1% ± 1 digit
	Calibration	1 point
	Temperature compensation	0...50 °C
DISPLAY	Salinity compensation	0...40
	Air pressure compensation	600...1300 hPa
COMMUNICATION	Range	-5...+105 °C
	Resolution	0.1 °C
DATA-LOGGING	Accuracy	0.1 °C
	Calibration	1 point
SECURITY	Range	600...1300 hPa
	Calibration	1 point
AMBIENT CONDITIONS	Measurement	BNC, 10 ¹² Ω
	Temperature	2 banana, for Pt1000
POWER SUPPLY	Reminder	0...999 h
	GLP	✓
DIMENSIONS	LCD	128x64 pixels
	White backlight	✓
WEIGHT	Hold function	✓
	Selectable resolution	✓
	Real time clock	✓
	Interface with computer	USB, insulated
	Data sets	12000 + °C/date/time
	Modes	all (9)
	Manual or timed	✓
	Interval	1...9999 s
	Identification number	✓
	Password protection	✓
	Temperature	0...40 °C
	Humidity	0...95%, non condensing
	Mains	100...240 VAC, 50/60 Hz
	Low voltage	9...15 VDC
	Batteries	4x1.2 V, AA, NiMH
	WxDxH	12x25x5 cm
	Meter	600 g

→ You will find ordering codes and descriptions of electrodes, calibration solutions, accessories... on pages 19...