

C6010 • C6020 • C6030 pH - mV - Ion - Conductivity - Resistivity - Salinity - TDS - Dissolved oxygen - Air pressure - Temperature



One channel for all ranges
One temperature channel

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
(C6030 only)	
(C6020, C6030 only)	

- **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.
- **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 meter + USB cable + 4 NiMH batteries + mains adaptor
C6020	pH/conductivity/DO meter + USB cable + 4 NiMH batteries + mains adaptor
C6030	pH/ion/conductivity/DO meter + USB cable + 4 NiMH batteries + mains adaptor
C60xOP	Meter kit for pH: C6030 + pH/ATC electrode SP10T + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + carrying case
C60xOK	Meter kit for conductivity: meter + conductivity/ATC electrode SK10T + 50 ml conductivity standard (0.01 M KCl) + carrying case
C60xOZ	Meter kit for oxygen: meter (not C6010) + dissolved oxygen electrode SZ10T + carrying case
C60xOT	Meter kit complete: meter + 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 (C6020 and C6030: + dissolved oxygen electrode SZ10T)
C60xOX	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)
→ Add a S-sign for US plug versions, e.g.: C6030S, → Add a U-sign for UK plug versions, e.g.:C6030U	

- Dissolved oxygen (C6020, C6030 only)**
 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.
- 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.
- 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
	Range (cc dependent)	0...2000 mS/cm
	Resolution (cc dependent)	0.001 µS/cm
	Accuracy	0.5% f.s. of range
	Calibration	1...3 points
	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	✓
RESISTIVITY	Capacitive compensation	✓
	Range	0...200 MΩ.cm
SALINITY	Resolution	1 Ω.cm
	Range	0.0...70.0
TDS	Reference temperature	15 °C
	Range	0...100 g/l
DISSOLVED OXYGEN (C6020, C6030 only)	Resolution	0.01 mg/l
	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
	Salinity compensation	0...40
Air pressure compensation	600...1300 hPa	
TEMPERATURE	Range	-5...+105 °C
	Resolution	0.1 °C
	Accuracy	0.1 °C
	Calibration	1 point
AIR PRESSURE (C6020, C6030 only)	Range	600...1300 hPa
	Calibration	1 point
INPUTS	Measurement	BNC, 10 ¹² Ω
	Temperature	2 banana, for Pt1000
CALIBRATION	Reminder	0...999 h
	GLP	✓
DISPLAY	LCD	128x64 pixels
	White backlight	✓
	Hold function	✓
	Selectable resolution	✓
COMMUNICATION	Real time clock	✓
	Interface with computer	USB, insulated
DATA-LOGGING	Data sets	12000 + °C/date/time
	Modes	all (9)
	Manual or timed	✓
	Interval	1...9999 s
SECURITY	Identification number	✓
	Password protection	✓
AMBIENT CONDITIONS	Temperature	0...40 °C
	Humidity	0...95%, non condensing
POWER SUPPLY	Mains	100...240 VAC, 50/60 Hz
	Low voltage	9...15 VDC
	Batteries	4x1.2 V, AA, NiMH
DIMENSIONS	WxDxH	12x25x5 cm
WEIGHT	Meter	600 g

You will find ordering codes and descriptions of accessories, electrodes, calibration solutions... on pages 24-29