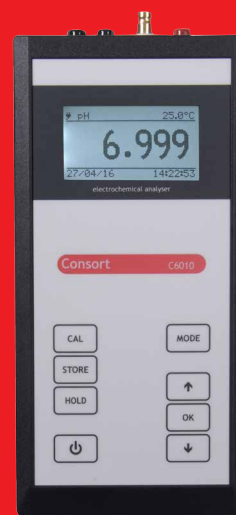# C6000 series
Multi-parameter analysers

- **Gold Plated BNC**
- **Portable**
- **One input handles all electrodes**
- **Pre-programmed standards**
  pH: 1.68, 2.00, 4.00, 4.01, 6.87, 6.99, 9.18, 9.21, 10.01, 12.00, 12.45 (at 25°C) + 5 user editable
  Conductivity: 1413 µS/cm, 12.88 mS/cm, 111.8 mS/cm (at 25°C) + 3 user editable
- **Stability algorithm with intuitive indicator**
- **Hold function**
- **Selectable resolution**
- **Range lock**
- **Capacitive compensation**
- **Galvanic isolated USB interface**
- **High Accuracy**
- **Free software and firmware updates**

CONV USBD RS232

The C6000 series are all full-parameter portable instruments. With the optional CONV_USBD_RS232 it's possible to convert the USB interface to RS232. Suitable for connecting an AP414 printer to the meter.

Specifications depending on model

Measurement Channels	**1**
Temperature Channels	**1**
pH	-2.000...+16.000 pH
mV	±2000.0 mV
Ion	0.01 ng/l...100 g/l
Conductivity	0...2000 mS/cm
Resistivity	0...200 MΩ.cm
Salinity	0.0...70.0
TDS	0...100.0 g/l
Dissolved oxygen	0...60.00 mg/l 0...600%
Air pressure	600...1300 hPa
Temperature	-5.0...+105.0°C
Warranty	36 months
Made in Belgium	

Code	Description
C6010	pH/conductivity/DO meter
C6030	pH/Ion/conductivity/DO meter

Code	Description	Content
C60**xx**P	pH meter kit, glass electrode	meter + pH electrode SP20T + 2x50ml pH buffers + 50ml electrolyte + carrying case
C60**xx**PE	pH meter kit, epoxy electrode	meter + pH electrode SP10T + 2x50ml pH buffers + 50ml electrolyte + carrying case
C60**xx**K	EC meter kit, glass electrode	meter + EC electrode SK20T + 50ml EC standard + carrying case
C60**xx**KE	EC meter kit, epoxy electrode	meter + EC electrode SK10T + 50ml EC standard + carrying case
C60**xx**PK	pH/EC meter kit, glass electrodes	meter + pH electrode SP20T + EC electrode SK20T + 2x50ml pH buffers + 50ml electrolyte + 50ml EC standard + carrying case
C60**xx**PKE	pH/EC meter kit, epoxy electrodes	meter + pH electrode SP10T + EC electrode SK10T + 2x50ml pH buffers + 50ml electrolyte + 50ml EC standard + carrying case
C60**xx**Z	Oxygen meter kit	meter + DO electrode SZ10T + carrying case
C60**xx**T	Complete meter kit, glass electrodes (DO epoxy)	meter + pH electrode SP20T + EC electrode SK20T + 2x50ml pH buffers + 50ml electrolyte + 50ml EC standard + DO electrode SZ10T + carrying case
C60**xx**TE	Complete meter kit, epoxy electrode	meter + pH electrode SP10T + EC electrode SK10T + 2x50ml pH buffers + 50ml electrolyte + 50ml EC standard + DO electrode SZ10T + carrying case
C60**xx**X	Meter kit without electrodes	meter + 2x50ml pH buffers + 50ml electrolyte + 50ml EC standard + carrying case
CONV_USBD_RS232	USB device to RS232 converter	
AP414	Serial printer	
SH300	Flexible electrode holder	
Kits are available for each meter. Replace xx with correct meter number. F.i. C6010P, C6030T, etc...		

Consort

Measurement Channels	1
Temperature Channels	1
pH	-2.000...+16.000 pH
mV	±2000.0 mV
Ion (C6030 only)	0.01 ng/l...100 g/l
Conductivity	0...2000 mS/cm
Resistivity	0...200 MΩ.cm
Salinity	0.0...70.0
TDS	0...100.0 g/l
Dissolved oxygen	0...60.00 mg/l 0...600.0%
Air pressure	600...1300 hPa
Temperature	-5.0...+105.0°C
Warranty	36 months
Made in Belgium	

● Description

The C6010 and C6030 instruments are single channel multi parameter analysers suitable as bench-top and as portable device. A corrosion resistant gold plated BNC connector ensures a long life in even harsh environments. The single BNC connection accepts different electrodes, including conductivity electrodes.

Via an easy to use menu system, the device can be configured to do your measurements. A built-in help system will help you through all steps for successfully use the instrument.

Besides the pre-programmed pH buffers and EC standards, you can also add your own buffer and standard tables. Not just a certain value at a certain temperature but the complete temperature related table of your specific buffer. Add up to 5 pH buffers and 3 EC standards of your own choice and use them as if they are built-in.

The device can be connected to a PC and completely controlled. Both software and communication protocol can be downloaded from our website.

● Highlights

Portable and bench-top combined in 1 instrument.

Custom calibration tables allows the user to add complete buffer/standard-temperature relation tables. With this feature the built-in tables can be extended with your own tables. Tables can be entered via a device menu or uploaded from a PC.

Stability indicator ensures visualisation when measurement has stabilised.

Stability algorithm ensures stable readings with ability to detect fast changes.

Hold function allows to freeze the display

Selectable resolution for more stable readings for mV, pH and DO.

Range lock for conductivity measurements.

Capacitive compensation eliminates the capacitive component of the electrode and cable at conductivity measurements

Galvanic isolated USB interface eliminates ground loop effects when connected to a PC.

GPL report can be shown on the display or sent to the digital port.

Pre-programmed standards
      pH: 1.68, 2.00, 4.00, 4.01, 6.87, 6.99, 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)

Free software and firmware updates downloadable from www.consort.be

Consort

Specifications

pH		
	Range	-2.000...+16.000 pH
	Resolution	0.001 pH
	Accuracy	0.1% ± 1 digit
	Calibration	1...5 points
	Buffers	11 pre-programmed 5 user specified
	Temperature compensation	-5.0...+105.0°C
	ISO-pH	6.000...8.000 pH
	Slope	80.0...120.0%
	Zero point (Eo)	±999.0 mV
	Selectable Resolution	✓

mV		
	Range	±2000.0 mV
	Resolution	0.1 mV
	Accuracy	0.1% ± 1 digit
	Calibration	1 point
	Selectable Resolution	✓

CONDUCTIVITY		
	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°, 25°C or off
	Temperature coefficient	natural waters (EN27888)
	Range lock	✓
	Capacitive compensation	✓

RESISTIVITY		
	Range	0...200 MΩ.cm
	Resolution	1 Ω.cm

SALINITY		
	Range	0.0...70.0
	Reference temperature	15°C

TDS		
	Range	0...100.0 g/l
	Resolution	0.01 mg/l

DISSOLVED OXYGEN		
	Range	0...60.00mg/l
	Resolution	0.01 mg/l
	Accuracy	1% ± 1 digit
	Calibration	1 point
	Temperature compensation	0...50°C
	Salinity compensation	0...40
	Air pressure compensation	600...1300 hPa
	Selectable Resolution	✓

TEMPERATURE		
	Range	-5.0...+105.0°C
	Resolution	0.1°C
	Accuracy	0.1°C
	Calibration	1 point

ION (C6030 only)		
	Range	0.01 ng/l...100 g/l
	Resolution	3 digits
	Accuracy	0.5% ± 1 digit
	Calibration	2...5 points + blank

AIR PRESSURE		
	Range	600...1300 hPa
	Calibration	1 point

CHANNELS		
	Measurement	1
	Temperature	1

INPUTS		
	Measurement	1 BNC, $10^{12}\Omega$
	Temperature	1x2 banana, for Pt1000

CALIBRATION		
	Reminder	0...999 h
	GLP	✓

DISPLAY		
	LCD	128x64 pixels
	White back-light	✓
	Hold function	✓
	Selectable resolution	✓
	Real time clock	✓
	Built-in help	✓
	Languages	English
		Dutch
		French
		German

COMMUNICATION		
	Interface with computer	USB
	Baud rate	1200...115200 b/s

DATA-LOGGING		
	Data sets	12000 + °C/date/time
	Modes	all
	Manual or timed	✓
	Interval	1...9999 s

SECURITY		
	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 (included)	4x1.2 V, AA, NiMH

DIMENSIONS		
	WxDxH	12x25x5 cm

WEIGHT		
	Meter	600g

Ordering codes

Code	Description
C6010	pH/conductivity/DO meter (USB version)
C6030	pH/Ion/conductivity/DO meter (USB version)
C60xxP	pH meter kit, glass electrode: C60xx + pH/ATC electrode SP20T + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + carrying case
C60xxPE	pH meter kit, epoxy electrode: C60xx + pH/ATC electrode SP10T + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + carrying case
C60xxPCH	pH meter kit, spear electrode: C60xx + pH/ATC spear electrode SP24T + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + carrying case
C60xxK	EC meter kit, glass electrode: C60xx + conductivity/ATC electrode SK20T + 50 ml conductivity standard (0.01 M KCl) + carrying case
C60xxKE	EC meter kit, epoxy electrode: C60xx + conductivity/ATC electrode SK10T + 50 ml conductivity standard (0.01 M KCl) + carrying case
C60xxPK	pH/EC meter kit, pH and EC glass electrodes: C60xx + pH/ATC electrode SP20T + conductivity/ATC electrode SK20T + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + 50 ml conductivity standard (0.01 M KCl) + carrying case
C60xxPKE	pH/EC meter kit, pH and EC epoxy electrodes: C60xx + 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
C60xxZ	DO meter kit: C60xx + dissolved oxygen electrode SZ10T + carrying case
C60xxT	pH/EC/DO meter kit, pH and EC glass electrodes: C60xx + pH/ATC electrode SP20T + conductivity/ATC electrode SK20T + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + 50 ml conductivity standard (0.01 M KCl) + dissolved oxygen electrode SZ10T + carrying case
C60xxTE	pH/EC/DO meter kit, pH and EC epoxy electrodes: C60xx + 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) + dissolved oxygen electrode SZ10T + carrying case
C60xxX	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)
ADAPT-CAR	Car adaptor, 12 V (optional)
➜ **Supplied with a mains adaptor (100...240 VAC, EU/US) and USB cable.** Add -UK for UK plug versions, -CH for Swiss plug versions.	

Consort