



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:	0.0...70.0
TDS:	0...100 g/l
Dissolved oxygen:	0...60 mg/l 0...600%
Air pressure:	600...1300 hPa
Temperature:	-5...+105°C

**Six independent channels
for all measurements!**

(conductivity: only 2 channels)

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

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/temp. 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!).

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%).

Automatic air pressure compensation 600-1300 hPa.

Temperature

Reads temperatures with 0.1°C resolution.

Manual or automatic temperature compensation (O₂: 0...50°C).

Calibrates temperature probe for quality measurements.

Inputs

Two inputs for pH, mV, Ion, dissolved oxygen or conductivity + corresponding temperature and reference inputs.

Four extra inputs for pH, mV, Ion or dissolved oxygen + corresponding temperature and reference inputs.

Outputs

Two versions available:

C3040: with USB communication port (galvanically isolated) and RS232 interface.

C3041: with Ethernet communication port and RS232 interface.

Display

A large bright LCD screen with white backlight enables to view all channels individually or simultaneously.

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.

An optional wall mounting kit allows to fix the meter to any wall making more space available on the desk.

Special features

Two-way communication with a computer using USB, Ethernet or RS232.

Can be programmed to continue automatically with the measurements or data-logging after a power failure.

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

No electrical interference between pH/ORP/Ion and conductivity electrodes in the same solution.

Optional 12 V car adaptor.

Three year warranty.

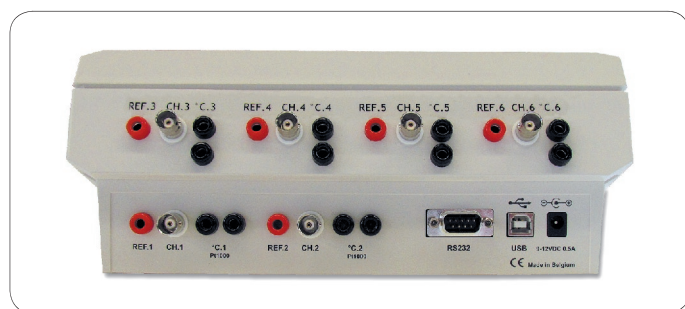
GLP

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).



CODE	DESCRIPTION
C3040	pH/Ion/conductivity/DO meter (USB version) + USB cable
C3041	pH/Ion/conductivity/DO meter (Ethernet version) + UTP cable
SH300	Flexible electrode holder (optional)
A4800	Wall mounting kit (optional)
A4049	Car adaptor, 12 V (optional)
<p>➔ Supplied with a mains adaptor (100...240 VAC, EU/US) (Add a UK-sign for UK plug versions, e.g.: C3040-UK) (Add a CH-sign for Swiss plug versions, e.g.: C3040-CH)</p>	

SPECIFICATIONS	C3040 - C3041		
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	
mV	Slope	80...120%	
	Zero point (Eo)	±999 mV	
	Range	±2000 mV	
	Resolution	0.1 mV	
	Accuracy	0.1% ± 1 digit	
	Calibration	1 point	
	ION	Range	0.01 ng/l...100 g/l
Resolution		3 digits	
Accuracy		0.5% ± 1 digit	
Calibration		2...5 points + blank	
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	0.01/0.1/1 M KCl 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	✓		
RESISTIVITY	Range	0...200 MΩ.cm	
	Resolution	1 Ω.cm	
SALINITY	Range	0.0...70.0	
	Reference temperature	15 °C	
TDS	Range	0...100 g/l	
	Resolution	0.01 mg/l	
DISSOLVED OXYGEN	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	
TEMPERATURE	Air pressure compensation	600...1300 hPa	
	Range	-5...+105 °C	
	Resolution	0.1 °C	
	Accuracy	0.1 °C	
AIR PRESSURE	Calibration	1 point	
	Range	600...1300 hPa	
CHANNELS	Measurement	6 (conductivity: 2)	
	Temperature	6	
INPUTS	Measurement	6 BNC, 10 ¹² Ω	
	Temperature	6x2 banana, for Pt1000	
CALIBRATION	Reminder	0...999 h	
	GLP	✓	
DISPLAY	LCD	240x64 pixels	
	White backlight	✓	
	Hold function	✓	
	Selectable resolution	✓	
	Real time clock	✓	
COMMUNICATION	Interface with computer	USB or Ethernet	
	RS232, baud rate	1200...115200 b/s	
	Printer	✓	
DATA-LOGGING	Data sets	12000 + °C/date/time	
	Modes	all	
	Manual or timed	✓	
SECURITY	Interval	1...9999 s	
	Identification number	✓	
AMBIENT CONDITIONS	Password protection	✓	
	Temperature	0...40 °C	
POWER SUPPLY	Humidity	0...95%, non condensing	
	Mains	100...240 VAC, 50/60 Hz	
DIMENSIONS	Low voltage	9...15 VDC	
	WxDxH	26x18x9 cm	
WEIGHT	Meter	1 kg	

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