

- **Gold Plated BNC**
- **Multichannel**
- **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
- **No interference between electrodes**
- **Stability algorithm with intuitive indicator**
- **Hold function**
- **Selectable resolution**
- **Range lock**
- **Capacitive compensation**
- **Galvanic isolated USB interface**
- **Ethernet connection available**
- **High Accuracy**
- **Free software and firmware updates**



The C3000 series are all full-parameter multi-channel instruments. 2 channels up to 8 channels with each channel having it's own dedicated measurement hardware without interference between the channels. All values can be displayed simultaneously on the screen.

### Specifications depending on model

Measurement Channels	2 to 8 (max 2 EC channels)
Temperature Channels	2 to 6
pH	-10.000...+20.000 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	-30.0...+130.0°C
Warranty	36 months
Made in Belgium	



AP414



SH300

Code	Description
<b>C3010</b>	2 channel pH/conductivity/DO meter (USB version)
<b>C3011</b>	2 channel pH/conductivity/DO meter (Ethernet version)
<b>C3030</b>	2 channel pH/Ion/conductivity/DO meter (USB version)
<b>C3031</b>	2 channel pH/Ion/conductivity/DO meter (Ethernet version)
<b>C3040</b>	6 channel pH/Ion/conductivity/DO meter (USB version)
<b>C3041</b>	6 channel pH/Ion/conductivity/DO meter (Ethernet version)
<b>C3060</b>	8 channel pH/Ion/conductivity/DO meter (USB version)
<b>C3061</b>	8 channel pH/Ion/conductivity/DO meter (Ethernet version)



Code	Description	Content
<b>C30xxP</b>	pH meter kit, glass electrode	meter + pH electrode SP20T + 2x50ml pH buffers + 50ml electrolyte
<b>C30xxPE</b>	pH meter kit, epoxy electrode	meter + pH electrode SP10T + 2x50ml pH buffers + 50ml electrolyte
<b>C30xxK</b>	EC meter kit, glass electrode	meter + EC electrode SK20T + 50ml EC standard
<b>C30xxKE</b>	EC meter kit, epoxy electrode	meter + EC electrode SK10T + 50ml EC standard
<b>C30xxPK</b>	pH/EC meter kit, glass electrodes	meter + pH electrode SP20T + EC electrode SK20T + 2x50ml pH buffers + 50ml electrolyte + 50ml EC standard
<b>C30xxPKE</b>	pH/EC meter kit, epoxy electrodes	meter + pH electrode SP10T + EC electrode SK10T + 2x50ml pH buffers + 50ml electrolyte + 50ml EC standard
<b>C30xxZ</b>	Oxygen meter kit	meter + DO electrode SZ10T
<b>C30xxT</b>	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
<b>C30xxTE</b>	Complete meter kit, epoxy electrode	meter + pH electrode SP10T + EC electrode SK10T + 2x50ml pH buffers + 50ml electrolyte + 50ml EC standard + DO electrode SZ10T
<b>C30xxX</b>	Meter kit without electrodes	meter + 2x50ml pH buffers + 50ml electrolyte + 50ml EC standard
<b>AP414</b>	Serial printer	
<b>SH300</b>	Flexible electrode holder (optional)	

Kits are available for each meter. Replace xx with correct meter number. F.i. C3010P, C3030T, etc...

<b>Measurement Channels</b>	<b>2</b>
<b>Temperature Channels</b>	<b>2</b>
<b>pH</b>	-10.000...+20.000 pH
<b>mV</b>	±2000.0 mV
<b>Ion (C303x only)</b>	0.01 ng/l...100 g/l
<b>Conductivity</b>	0...2000 mS/cm
<b>Resistivity</b>	0...200 MΩ.cm
<b>Salinity</b>	0.0...70.0
<b>TDS</b>	0...100.0 g/l
<b>Dissolved oxygen</b>	0...60.00 mg/l 0...600%
<b>Air pressure</b>	600...1300 hPa
<b>Temperature</b>	-30.0...+130.0°C
<b>Warranty</b>	36 months
<b>Made in Belgium</b>	



**Two independent channels for all measurements!**

## ● Description

The C3010 and C3030 instruments are full parameter dual channel instruments. Each channel has its own measurement hardware. All values can be displayed simultaneously on the screen. There is no interference between the channels when measuring pH/ORP/ Ion and conductivity in the same solution! C3011 and C3031 variations have an Ethernet connection instead of USB.

2 sets of gold plated BNC connectors of which each accepts different electrodes, including conductivity electrodes. Gold plating prevents corrosion of BNC connectors. Via an easy to use menu system, the device can be configured for your measurements. A built-in help system will help you through all steps to use the instrument successfully.

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.

Two temperature inputs are independent from measurement channels. ATC for each channel can be selected from any of the temperature inputs. The device can be connected to a PC and completely controlled via either USB/RS232 or Ethernet/RS232. Both software and communication protocol can be downloaded from our website.

## ● Highlights

**Multichannel** up to 2 measurements can be performed at the same time and simultaneously or individually shown on the display. Each channel can measure 2 times per second.

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

**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.

**Wide Display** shows 2 channels at the same time including temperature and date/time.

**Stability indicator** ensures visualisation when the 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 of mV, pH and DO.

**Range lock** for conductivity measurements.

**Capacitive compensation** eliminates the capacitive component of the electrode and cable when measuring low conductivities.

**Galvanic isolated USB interface** eliminates ground loop effects when connected to a PC (C3010,C3030 only).

**Ethernet connection** allows remote access to the device via LAN or Internet (C3011,C3031 only).

**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](http://www.consort.be)

## Specifications

<b>pH</b>	Range	-10.000...+20.000 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	✓
<b>mV</b>	Range	±2000.0 mV
	Resolution	0.1 mV
	Accuracy	0.1% ± 1 digit
	Calibration	1 point
	Selectable Resolution	✓
<b>CONDUCTIVITY</b>	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 or off
	Reference temperature	20°, 25°C
	Temperature coefficient	natural waters (EN27888)
	Range lock	✓
	Capacitive compensation	✓
<b>RESISTIVITY</b>	Range	0...200 MΩ.cm
	Resolution	1 Ω.cm
<b>SALINITY</b>	Range	0.0...70.0
	Reference temperature	15°C
<b>TDS</b>	Range	0...100.0 g/l
	Resolution	0.01 mg/l
<b>DISSOLVED OXYGEN</b>	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	✓	

<b>TEMPERATURE</b>	Range	-30.0...+130.0°C	
	Resolution	0.1°C	
	Accuracy	0.1°C	
	Calibration	1 point	
<b>ION (C303x only)</b>	Range	0.01 ng/l...100 g/l	
	Resolution	3 digits	
	Accuracy	0.5% ± 1 digit	
	Calibration	2...5 points + blank	
<b>AIR PRESSURE</b>	Range	600...1300 hPa	
	Calibration	1 point	
<b>CHANNELS</b>	Measurement	2	
	Temperature	2	
<b>INPUTS</b>	Measurement	2 BNC, 10 <sup>12</sup> Ω	
	Temperature	2x2 banana, for Pt1000	
<b>CALIBRATION</b>	Reminder	0...999 h	
	GLP	✓	
<b>DISPLAY</b>	LCD	240x64 pixels	
	White back-light	✓	
	Hold function	✓	
	Selectable resolution	✓	
	Real time clock	✓	
	Built-in help	✓	
	Languages	English Dutch French German	
	<b>COMMUNICA-TION</b>	Interface with computer	USB/RS232 or Ethernet/RS232
		Baud rate	1200...115200 b/s
		Printer	✓
<b>DATA-LOGGING</b>	Data sets	12000 + °C/date/time	
	Modes	all	
	Manual or timed	✓	
	Interval	1...9999 s	
<b>SECURITY</b>	Password protection	✓	
<b>AMBIENT CONDITIONS</b>	Temperature	0...40°C	
	Humidity	0...95%, non condensing	
<b>POWER SUPPLY</b>	Mains	100...240 VAC, 50/60 Hz	
	Low voltage	9...15 VDC	
<b>DIMENSIONS</b>	WxDxH	26x18x9 cm	
<b>WEIGHT</b>	Meter	1 kg	



## Ordering codes

Code	Description
<b>C3010</b>	pH/conductivity/DO meter (USB version)
<b>C3011</b>	pH/conductivity/DO meter (Ethernet version)
<b>C3030</b>	pH/Ion/conductivity/DO meter (USB version)
<b>C3031</b>	pH/Ion/conductivity/DO meter (Ethernet version)
<b>C30xxP</b>	pH meter kit, glass electrode: C30xx + pH/ATC electrode SP20T + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl)
<b>C30xxPE</b>	pH meter kit, epoxy electrode: C30xx + pH/ATC electrode SP10T + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl)
<b>C30xxK</b>	EC meter kit, glass electrode: C30xx + conductivity/ATC electrode SK20T + 50 ml conductivity standard (0.01 M KCl)
<b>C30xxKE</b>	EC meter kit, epoxy electrode: C30xx + conductivity/ATC electrode SK10T + 50 ml conductivity standard (0.01 M KCl)
<b>C30xxPK</b>	pH/EC meter kit, glass electrodes: C30xx + 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)
<b>C30xxPKE</b>	pH/EC meter kit, epoxy electrodes: C30xx + 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)
<b>C30xxZ</b>	Oxygen meter: C30xx + dissolved oxygen electrode SZ10T
<b>C30xxT</b>	Complete meter kit, pH and EC glass electrodes: C30xx + 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
<b>C30xxTE</b>	Complete meter kit, pH and EC epoxy electrode: C30xx + 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
<b>C30xxX</b>	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)
<b>AP414</b>	Serial printer
<b>SH300</b>	Flexible electrode holder (optional)

→ Supplied with a mains adaptor (100...240 VAC, EU/US) and USB or UTP cable. Add -UK for UK plug versions, -CH for Swiss plug versions.

<b>Measurement Channels</b>	<b>2</b>
<b>Temperature Channels</b>	<b>2</b>
<b>pH</b>	-10.000...+20.000 pH
<b>mV</b>	±2000.0 mV
<b>Ion (C343x only)</b>	0.01 ng/l...100 g/l
<b>Conductivity</b>	0...2000 mS/cm
<b>Resistivity</b>	0...200 MΩ.cm
<b>Salinity</b>	0.0...70.0
<b>TDS</b>	0...100.0 g/l
<b>Dissolved oxygen</b>	0...60.00 mg/l 0...600%
<b>Air pressure</b>	600...1300 hPa
<b>Temperature</b>	-30.0...+130.0°C
<b>Warranty</b>	36 months
<b>Made in Belgium</b>	



**Two independent channels for all measurements!  
Accepts 4-pole and 2-pole EC probes!**

## ● Description

C3410 and C3430 are variations on C3010 and C3030 with 2 extra DIN connections for 4-pole EC measurements. EC can be measured with a 4-pole cell for a very high accuracy and linearity or with a 2-pole EC probe at the gold plated BNC connections. C3411 and C3431 variations have an Ethernet connection instead of USB. Same as for C30xx there is no interference between channels. The built-in help system guides the user through the use of the instrument and it's various functions.

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. Two temperature inputs are independent from measurement channels. ATC for each channel can be selected from any of the temperature inputs.

The device can be connected to a PC and completely controlled via either USB/RS232 or Ethernet/RS232. Both software and communication protocol can be downloaded from our website.

## ● Highlights

**Multichannel** up to 2 measurements can be performed at the same time and simultaneously or individually shown on the display. Each channel can measure 2 times per second.

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

**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.

**Wide Display** shows 2 channels at the same time including temperature and date/time.

**Stability indicator** ensures visualisation when the 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 of mV, pH and DO.

**Range lock** for conductivity measurements.

**Capacitive compensation** eliminates the capacitive component of electrode and cable when measuring low conductivities.

**4-pole EC and 2-pole EC** electrodes can be used via either DIN (4 pole) or BNC (2 pole) connector.

**Galvanic isolated USB interface** eliminates ground loop effects when connected to a PC (C3410,C3430 only).

**Ethernet connection** allows remote access to the device via LAN or Internet (C3411,C3431 only).

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

### Pre-programmed standards

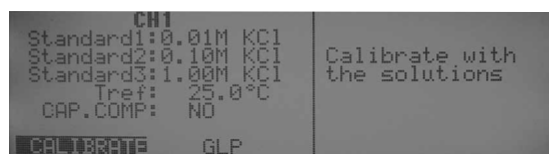
pH: 1.68, 2.00, 4.00, 4.01, 6.87, 6.99, 9.18, 9.21, 10.01, 12.00, 12.45 (at 25°C)  
Conductivity: 1413 µS/cm, 12.88 mS/cm, 111.8 mS/cm (at 25°C)

**Free software and firmware updates** downloadable from [www.consort.be](http://www.consort.be)

## Specifications

<b>pH</b>	Range	-10.000...+20.000 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	✓	
	<b>mV</b>	Range	±2000.0 mV
Resolution		0.1 mV	
Accuracy		0.1% ± 1 digit	
Calibration		1 point	
Selectable Resolution		✓	
<b>CONDUCTIVITY</b>	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 or off	
	Reference temperature	20°, 25°C	
	Temperature coefficient	natural waters (EN27888)	
	Range lock	✓	
	Capacitive compensation	✓	
	4-pole measurements	✓	
	<b>RESISTIVITY</b>	Range	0...200 MΩ.cm
		Resolution	1 Ω.cm
<b>SALINITY</b>	Range	0.0...70.0	
	Reference temperature	15°C	
<b>TDS</b>	Range	0...100.0 g/l	
	Resolution	0.01 mg/l	
<b>DISSOLVED OXYGEN</b>	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	✓		

<b>TEMPERATURE</b>	Range	-30.0...+130.0°C
	Resolution	0.1°C
	Accuracy	0.1°C
	Calibration	1 point
<b>ION (C303x only)</b>	Range	0.01 ng/l...100 g/l
	Resolution	3 digits
	Accuracy	0.5% ± 1 digit
	Calibration	2...5 points + blank
<b>AIR PRESSURE</b>	Range	600...1300 hPa
	Calibration	1 point
<b>CHANNELS</b>	Measurement	2
	Temperature	2
<b>INPUTS</b>	Measurement	2 BNC, 10 <sup>12</sup> Ω
	Temperature	2x2 banana, for Pt1000
<b>CALIBRATION</b>	Reminder	0...999 h
	GLP	✓
<b>DISPLAY</b>	LCD	240x64 pixels
	White backlight	✓
	Hold function	✓
	Selectable resolution	✓
	Real time clock	✓
	Built-in help	✓
	Languages	English Dutch French German
	<b>COMMUNICA-TION</b>	Interface with computer
<b>DATA-LOGGING</b>	Baud rate	1200...115200 b/s
	Printer	✓
	Data sets	12000 + °C/date/time
<b>SECURITY</b>	Modes	all
	Manual or timed	✓
	Interval	1...9999 s
<b>AMBIENT CONDITIONS</b>	Password protection	✓
	Temperature	0...40°C
<b>POWER SUPPLY</b>	Humidity	0...95%, non condensing
	Mains	100...240 VAC, 50/60 Hz
<b>DIMENSIONS</b>	Low voltage	9...15 VDC
	WxDxH	26x18x9 cm
<b>WEIGHT</b>	Meter	1 kg



## Ordering codes

Code	Description
<b>C3410</b>	pH/conductivity/DO meter (USB version)
<b>C3411</b>	pH/conductivity/DO meter (Ethernet version)
<b>C3430</b>	pH/ion/conductivity/DO meter (USB version)
<b>C3431</b>	pH/ion/conductivity/DO meter (Ethernet version)
<b>AP414</b>	Serial printer
<b>SH300</b>	Flexible electrode holder (optional)
<b>ADAPT-CAR</b>	Car adaptor, 12 V (optional)

→ Supplied with a mains adaptor (100...240 VAC, EU/US) and USB or UTP cable. Add -UK for UK plug versions, -CH for Swiss plug versions.

<b>Measurement Channels</b>	<b>6 (conductivity: 2)</b>
<b>Temperature Channels</b>	<b>6</b>
<b>pH</b>	-10.000...+20.000 pH
<b>mV</b>	±2000.0 mV
<b>Ion</b>	0.01 ng/l...100 g/l
<b>Conductivity</b>	0...2000 mS/cm
<b>Resistivity</b>	...200 MΩ.cm
<b>Salinity</b>	0.0...70.0
<b>TDS</b>	0...100.0 g/l
<b>Dissolved oxygen</b>	0...60.00 mg/l 0...600%
<b>Air pressure</b>	600...1300 hPa
<b>Temperature</b>	-30.0...+130.0°C
<b>Warranty</b>	36 months
<b>Made in Belgium</b>	



**Six independent channels for all measurements!**

## ● Description

With 6 multi-parameter measurement channels and 6 temperature channels the C3040 can perform 6 different measurements at the same time with individual temperature compensation. All measurements, including temperature, can be shown simultaneously or individually on the wide display. C3041 version has an Ethernet connection instead of USB.

All 6 gold plated BNC connectors accept different electrodes of which 2 connectors also accept conductivity electrodes. There is no interference between the channels when measuring pH/ORP/Ion and conductivity in the same solution.

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.

Six temperature inputs are independent from measurement channels. ATC for each channel can be selected from any of the temperature inputs. The device can be connected to a PC and completely controlled via either USB/RS232 or Ethernet/RS232. Both software and communication protocol can be downloaded from our website.

## ● Highlights

**Multichannel** up to 6 measurements can be performed at the same time and simultaneously or individually shown on the display. Each channel can measure 2 times per second.

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

**Custom calibration tables** allow 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.

**Wide Display** shows up to 6 channels (selectable) at the same time including temperature and date/time.

**Stability indicator** ensures visualisation when the 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 of mV, pH and DO.

**Range lock** for conductivity measurements.

**Capacitive compensation** eliminates the capacitive component of the electrode and cable when measuring low conductivities.

**Galvanic isolated USB interface** eliminates ground loop effects when connected to a PC (C3040 only).

**Ethernet connection** allows remote access to the device via LAN or Internet (C3041 only).

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

### Pre-programmed standards

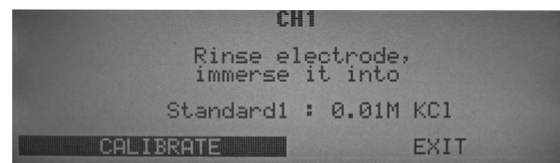
pH: 1.68, 2.00, 4.00, 4.01, 6.87, 6.99, 9.18, 9.21, 10.01, 12.00, 12.45 (at 25°C)  
 Conductivity: 1413 µS/cm, 12.88 mS/cm, 111.8 mS/cm (at 25°C)

**Free software and firmware updates** downloadable from [www.consort.be](http://www.consort.be)

## Specifications

<b>pH</b>	Range	-10.000...+20.000 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	✓
	<b>mV</b>	Range
Resolution		0.1 mV
Accuracy		0.1% ± 1 digit
Calibration		1 point
Selectable Resolution		✓
<b>CONDUCTIVITY</b>	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 or off
	Reference temperature	20°, 25°C
	Temperature coefficient	natural waters (EN27888)
	Range lock	✓
	Capacitive compensation	✓
<b>RESISTIVITY</b>	Range	0...200 MΩ.cm
	Resolution	1 Ω.cm
<b>SALINITY</b>	Range	0.0...70.0
	Reference temperature	15°C
<b>TDS</b>	Range	0...100.0 g/l
	Resolution	0.01 mg/l
<b>DISSOLVED OXYGEN</b>	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	✓	

<b>TEMPERATURE</b>	Range	-30.0...+130.0°C
	Resolution	0.1°C
	Accuracy	0.1°C
<b>ION</b>	Range	0.01 ng/l...100 g/l
	Resolution	3 digits
	Accuracy	0.5% ± 1 digit
	Calibration	2...5 points + blank
<b>AIR PRESSURE</b>	Range	600...1300 hPa
	Calibration	1 point
<b>CHANNELS</b>	Measurement	6
	Temperature	6
<b>INPUTS</b>	Measurement	6 BNC, 10 <sup>12</sup> Ω
	Temperature	6x2 banana, for Pt1000
<b>CALIBRATION</b>	Reminder	0...999 h
	GLP	✓
<b>DISPLAY</b>	LCD	240x64 pixels
	White back-light	✓
	Hold function	✓
	Selectable resolution	✓
	Real time clock	✓
	Built-in help	✓
	Languages	English Dutch French German
<b>COMMUNICATION</b>	Interface with computer	USB/RS232 or Ethernet/RS232
	Baud rate	1200...115200 b/s
	Printer	✓
<b>DATA-LOGGING</b>	Data sets	12000 + °C/date/time
	Modes	all
	Manual or timed	✓
	Interval	1...9999 s
<b>SECURITY</b>	Password protection	✓
<b>AMBIENT CONDITIONS</b>	Temperature	0...40°C
	Humidity	0...95%, non condensing
<b>POWER SUPPLY</b>	Mains	100...240 VAC, 50/60 Hz
	Low voltage	9...15 VDC
<b>DIMENSIONS</b>	WxDxH	26x18x9 cm
<b>WEIGHT</b>	Meter	1 kg



## Ordering codes

Code	Description
<b>C3040</b>	pH/Ion/conductivity/DO meter (USB version)
<b>C3041</b>	pH/Ion/conductivity/DO meter (Ethernet version)
<b>AP414</b>	Serial printer
<b>SH300</b>	Flexible electrode holder (optional)
<b>ADAPT-CAR</b>	Car adaptor, 12 V (optional)

→ Supplied with a mains adaptor (100...240 VAC, EU/US) and USB or UTP cable. Add -UK for UK plug versions, -CH for Swiss plug versions.

<b>Measurement Channels</b>	<b>8 (conductivity: 2)</b>
<b>Temperature Channels</b>	<b>2</b>
<b>pH</b>	-10.000...+20.000 pH
<b>mV</b>	±2000.0 mV
<b>Ion</b>	0.01 ng/l...100 g/l
<b>Conductivity</b>	0...2000 mS/cm
<b>Resistivity</b>	0...200 MΩ.cm
<b>Salinity</b>	0.0...70.0
<b>TDS</b>	0...100 g/l
<b>Temperature</b>	-30.0...+130.0°C
<b>Warranty</b>	36 months
<b>Made in Belgium</b>	



**Eight independent channels for all measurements!**

## ● Description

With 8 multi-parameter measurement channels and 2 temperature channels the C3060/C3061 can perform 8 different measurements at the same time. Each channel has its own measurement hardware. All values can be shown simultaneously on the display. C3061 variation has an Ethernet connection instead of USB.

All 8 gold plated BNC connectors each accept different electrodes of which 2 connectors also accept conductivity electrodes. There is no interference between the channels when measuring pH/ORP/Ion and conductivity in the same solution.

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.

Two temperature inputs are independent from measurement channels. ATC for each channel can be selected from any of the temperature inputs.

The device can be connected to a PC and completely controlled via either USB/RS232 or Ethernet/RS232. Both software and communication protocol can be downloaded from our website.

## ● Highlights

**Multichannel** up to 8 measurements can be performed at the same time and simultaneously or individually shown on the display. Each channel can measure 2 times per second.

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

**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.

**Wide Display** shows up to 8 channels (selectable) at the same time including temperature and date/time.

**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 and pH.

**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 (C3060 only).

**Ethernet connection** allows remote access to the device via LAN or Internet (C3061 only).

**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)

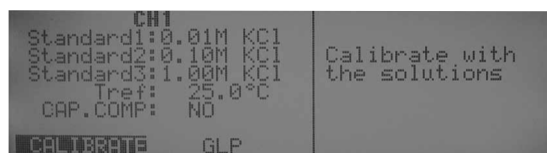
**Free software and firmware updates** downloadable from [www.consort.be](http://www.consort.be)



## Specifications

<b>pH</b>	Range	-10.000...+20.000 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	✓
<b>mV</b>	Range	±2000.0 mV
	Resolution	0.1 mV
	Accuracy	0.1% ± 1 digit
	Calibration	1 point
<b>CONDUCTIVITY</b>	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 or off
	Reference temperature	20°, 25°C
	Temperature coefficient	natural waters (EN27888)
	Range lock	✓
	Capacitive compensation	✓
<b>RESISTIVITY</b>	Range	0...200 MΩ.cm
	Resolution	1 Ω.cm
<b>SALINITY</b>	Range	0.0...70.0
	Reference temperature	15°C
<b>TDS</b>	Range	0...100.0 g/l
	Resolution	0.01 mg/l
<b>TEMPERATURE</b>	Range	-30.0...+130.0°C
	Resolution	0.1°C
	Accuracy	0.1°C
	Calibration	1 point

<b>ION</b>	Range	0.01 ng/l...100 g/l
	Resolution	3 digits
	Accuracy	0.5% ± 1 digit
<b>CHANNELS</b>	Measurement	8
	Temperature	2
<b>INPUTS</b>	Measurement	8 BNC, 10 <sup>12</sup> Ω
	Temperature	2x2 banana, for Pt1000
<b>CALIBRATION</b>	Reminder	0...999 h
	GLP	✓
<b>DISPLAY</b>	LCD	240x64 pixels
	White back-light	✓
	Hold function	✓
	Selectable resolution	✓
	Real time clock	✓
	Built-in help	✓
	Languages	English Dutch French German
<b>COMMUNICA-TION</b>	Interface with computer	USB/RS232 or Ethernet/RS232
	Baud rate	1200...115200 b/s
	Printer	✓
<b>DATA-LOGGING</b>	Data sets	12000 + °C/date/time
	Modes	all
	Manual or timed	✓
	Interval	1...9999 s
<b>SECURITY</b>	Password protection	✓
<b>AMBIENT CONDITIONS</b>	Temperature	0...40°C
	Humidity	0...95%, non condensing
<b>POWER SUPPLY</b>	Mains	100...240 VAC, 50/60 Hz
	Low voltage	9...15 VDC
<b>DIMENSIONS</b>	WxDxH	26x18x9 cm
<b>WEIGHT</b>	Meter	1 kg



## Ordering codes

Code	Description
<b>C3060</b>	pH/Ion/conductivity/DO meter (USB version) + USB cable
<b>C3061</b>	pH/Ion/conductivity/DO meter (Ethernet version) + UTP cable
<b>AP414</b>	Serial printer
<b>SH300</b>	Flexible electrode holder (optional)
<b>ADAPT-CAR</b>	Car adaptor, 12 V (optional)

→ Supplied with a mains adaptor (100...240 VAC, EU/US) and USB or UTP cable. Add -UK for UK plug versions, -CH for Swiss plug versions.