1.2.560 × 3.056 → 12.560 × 3.056 → 12.560 × 3.174 × 7.351 Consort valuenee detanger (value) ↓ (valuenee) detanger (value) ↓ (valuenee) detanger (valuenee) ↓ (valuenee) detanger (valuenee) detanger (valuenee) ↓ (valuenee) detanger (valueneee	 ht: -2+16 pH hV: ±2000 mV on: 0.01 ng/l100 g/l conductivity: 02000 mS/cm cesistivity: 0200 MΩ.cm dalinity: 0.070.0 DS: 0100 g/l Dissolved oxygen: 060 mg/l 0600% Air pressure: 6001300 hPa Temperature: -5+105°C
 <i>pH</i> Multi-point (15) 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. <i>Create ye</i> Accepts pH electrodes with any zero point (Eo) between ±999 mV. <i>mV</i> Features mV calibration for accurate ORP measurements. Selectable resolution from 0.1 mV to 1 mV. <i>Ion</i> Direct concentration measurement. Multi-point (25) calibration and an additional blank correction for measuring low concentrations. <i>Conductivity</i> Multi-point (13) calibration for more linearity. An electrode with a typical cell constant of 1 cm⁻¹ (standard) permits to measure from 0.01 µS/cm to 20 mS/cm An electrode with a typical cell constant of 10 cm⁻¹ permits to measure from 0.1 µS/cm to 2000 mS/cm Automatically selects correct range and frequency. Selectable reference temperature: 20° or 25°C. 	or all measurements ! conductivity: only 2 channels)
 Multi-point (15) 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. <i>Create ye</i> Accepts pH electrodes with any zero point (Eo) between ±999 mV. <i>mV</i> Features mV calibration for accurate ORP measurements. Selectable resolution from 0.1 mV to 1 mV. <i>Ion</i> Direct concentration measurement. Multi-point (25) calibration and an additional blank correction for measuring low concentrations. <i>Conductivity</i> Multi-point (13) calibration for more linearity. An electrode with a typical cell constant of 1 cm⁻¹ (standard) permits to measure from 0.01 µS/cm to 20 mS/cm An electrode with a typical cell constant of 10 cm⁻¹ permits to measure from 0.1 µS/cm to 2000 mS/cm Automatically selects correct range and frequency. Selectable reference temperature: 20° or 25°C. 	ur own buffer/temperature tables!
 Altomatic calibration with any of three preprogrammed and three user spectried standard solutions. <i>tables!</i> 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 <i>Dissolved oxygen</i> Operates with a galvanic dissolved oxygen electrode requiring no polarisation time and no zero calibrati Selectable resolution from 0.01 mg/l (0.1%) to 0.1 mg/l (1%). Automatic air pressure compensation 600-1300 hPa. <i>Temperature</i> Reads temperatures with 0.1°C resolution. Manual or automatic temperature compensation (0₂: 050°C). 	in five ranges. in five ranges. Create your own standard/temperatu its cable (avoid the use of long cables!
Calibrates temperature probe for quality measurements.	
CODE DESCRIPTION C3040 Meter only (USB version) + USB cable + mains adaptor C3041 Meter only (Ethernet version) + mains adaptor	

C3041	Meter only (Ethernet Version) + mains adaptor
SH300	Flexible electrode holder (optional)

A4800Wall mounting kit (optional)A4049Car adaptor, 12 V (optional)

→ Add a \$-sign for US plug versions, e.g.: C3040\$, → Add a U-sign for UK plug versions, e.g.: C3040U

Electrochemistry

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.

Low voltage DC input for e.g. a mains adaptor.

• Outputs

Two versions available:

C3040: with USB communication port and RS232 interface.

C3041: with Ethernet communication port and RS232 interface.

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.

Freely downloadable data acquisition software enables 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.

• 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.

Special features

 $\bar{\text{Two-way}}$ 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 $\rm pH/ORP/Ion$ 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 μ S/cm, 12.88 mS/cm, 111.8 mS/cm (at 25°C).



Specifications		C3040 - C3041
pН	Range	-2+16 pH
	Resolution	0.001 pH
	Accuracy	0.1% ± 1 digit
	Calibration	15 points
	Buffers	11 pre-programmed
		5 user specified
	Temperature compensation	-5+105°C
	ISO-pH	68 pH
	Slope	80120%
	Zero point (Eo)	±999 mV
mV	Range	±2000 mV
	Resolution	0.1 mV
	Accuracy	0.1% ± 1 digit
	Calibration	1 point
ION	Range	0.01 ng/l100 g/l
	Resolution	3 digits
	Accuracy	$0.5\% \pm 1$ digit
	Calibration	25 points + blank
		02000 mS/cm
CONDUCTIVITY	Range (cc dependent)	
	Resolution (cc dependent)	0.001 µS/cm
	Accuracy	0.5% f.s. of range
	Calibration	13 points
	Standards	0.01/0.1/1 M KCl
		3 user specified
	Cell constant (cc)	0.1/1/10 cm ⁻¹ ±30%
	Temperature compensation	-5+105°C
	Reference temperature	20° or 25°C
	Temperature coefficient	natural waters (EN27888
	Range lock	\checkmark
	Capacitive compensation	✓
RESISTIVITY	Range	0200 MΩ.cm
	Resolution	1 Ω.cm
SALINITY	Range	0.070.0
JALINIT	Reference temperature	15°C
TDS	Range	0100 g/l
105	Resolution	0.01 mg/l
DISSOLVED OXYGEN	Range	060 mg/l (0600%)
DISSOLVED OXTGEN	Resolution	0.01 mg/l (0.1%)
	Accuracy	$1\% \pm 1$ digit
	Calibration	1 point
		050°C
	Temperature compensation	040
	Salinity compensation	
	Air pressure compensation	6001300 hPa
TEMPERATURE	Range	-5+105°C
	Resolution	0.1°C
	Accuracy	0.1°C
	Calibration	1 point
AIR PRESSURE	Range	6001300 hPa
	Calibration	1 point
CHANNELS	Measurement	6 (conductivity: 2)
	Temperature	6
INPUTS	Measurement	6 BNC, 10 ¹² Ω
	Temperature	6x2 banana, for Pt1000
CALIBRATION	Reminder	0999 h
	GLP	√
DISPLAY		240x64 pixels
	White backlight	✓
	Hold function	✓ ✓
	Selectable resolution	✓ ✓
	Real time clock	✓ ✓
COMMUNICATION		
COMMUNICATION	Interface with computer	USB or Ethernet
	RS232, baud rate	1200115200 b/s
DATA-LOGGING	Data sets	12000
	Modes	all
	Manual or timed	✓
	Interval	19999 s
SECURITY	Identification number	✓
	Password protection	✓
AMBIENT CONDITIONS		040°C
	Humidity	095%, non condensing
		100240 VAC, 50/60 Hz
	Mains	
POWER SUPPLY	Mains Low voltage	
POWER SUPPLY DIMENSIONS	Mains Low voltage WxDxH	915 VDC 26x18x9 cm