

C6030

pH - mV - Ion - Conductivity - Resistivity - Salinity - TDS - Dissolved oxygen - Air pressure - Temperature

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

*One channel for all ranges
One temperature channel*



- 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 (standard) 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!).
- 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%).
 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.

CODE	DESCRIPTION
C6030	Meter only (without electrodes) + USB cable + 4 NiMH batteries + mains adaptor
C6030X	Meter kit without electrodes: C6030 + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + 50 ml conductivity standard (0.01 M KCl) + carrying case
C6030P	Meter kit for pH: C6030 + pH/ATC electrode SP10T + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + carrying case
C6030K	Meter kit for conductivity: C6030 + conductivity/ATC electrode SK10T + 50 ml conductivity standard (0.01 M KCl) + carrying case
C6030Z	Meter kit for oxygen: C6030 + dissolved oxygen electrode SZ10T + carrying case
C6030T	Meter kit complete: C6030 + pH/ATC electrode SP10T + conductivity/ATC electrode SK10T + dissolved oxygen electrode SZ10T + 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 \$-sign for US plug versions, e.g.: C6030\$	
→ Add a U-sign for UK plug versions, e.g.: C6030U	

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.

Freely downloadable data acquisition software enables 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		C6030
pH	Range	-2...+16 pH
	Resolution	0.001 pH
	Accuracy	0.1% ± 1 digit
	Calibration	1...5 points
	Buffers	9 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
ION	Accuracy	0.1% ± 1 digit
	Calibration	1 point
	Range	0.01 ng/L...100 g/L
	Resolution	3 digits
CONDUCTIVITY	Accuracy	0.5% ± 1 digit
	Calibration	2...5 points + blank
	Standards	3 pre-programmed 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)
RESISTIVITY	Range lock	✓
	Capacitive compensation	✓
SALINITY	Range	0...200 MΩ.cm
	Resolution	1 Ω.cm
TDS	Range	0.001 µS/cm
	Reference temperature	15°C
DISSOLVED OXYGEN	Range	0...100 g/L
	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
TEMPERATURE	Salinity compensation	0...40
	Air pressure compensation	600...1300 hPa
	Range	-5...+105°C
	Resolution	0.1°C
AIR PRESSURE	Accuracy	0.1°C
	Calibration	1 point
INPUTS	Range	600...1300 hPa
	Calibration	1 point
CALIBRATION	Measurement	BNC, 10 ¹² Ω
	Temperature	2 banana, for Pt1000
DISPLAY	Reminder	0...999 h
	GLP	✓
	LCD	128x64 pixels
	White backlight	✓
COMMUNICATION	Hold function	✓
	Selectable resolution	✓
	Real time clock	✓
	Interface with computer	USB, insulated
DATA-LOGGING	Data sets	12000
	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

Electrodes supplied with kit versions



SP10T

- pH + ATC
- Epoxy body, 1 m cable
- 0...14 pH, 0...80°C
- Single junction, sealed



SK10T

- Conductivity + ATC
- Epoxy body, 1 m cable
- 1 cm⁻¹, 0...80°C
- Dual graphite plates



SZ10T

- Galvanic type + ATC
- Epoxy body, 1 m cable
- 0...60 mg/L, 0...50°C
- 3 m submersible cable