C5010 · C5020

Multi-parameter analysers

pH	0...14 pH
mV	±1000 mV
Conductivity	0...100 mS/cm
	0...1000 mS/cm
Salinity	0.0...70.0
TDS	0...100 g/l
Dissolved oxygen	0...20 mg/l
	0...200%
Temperature	0...100°C

(C5020 only)

One pH/mV channel
One conductivity/oxygen channel
One temperature channel

pH

Multi-point (1...3) calibration with up to three buffers out of eleven pre-programmed pH buffers.

Reads pH with 0.01 pH resolution.

mV

Features mV calibration for accurate ORP measurements.

Reads potentials with 1 mV resolution.

Conductivity

Use a 1 cm^{-1} electrode to measure from 0.1 μS/cm to 100 mS/cm.
Use a 0.1 cm^{-1} electrode to measure from 0.01 μS/cm to 10 mS/cm. *(C5020 only)*
Use a 10 cm^{-1} electrode to measure from 1 μS/cm to 1000 mS/cm. *(C5020 only)*

Automatically selects correct range and frequency.

Selectable reference temperature: 20° or 25°C.

One-point calibration.

Dissolved oxygen

Operates with a galvanic oxygen electrode requiring no polarisation time and no zero calibration.

Reads dissolved oxygen with 0.01 mg/l or 0.1% resolution.

Rapid air calibration.

Temperature

Reads temperatures with 0.1°C resolution.

Manual or automatic temperature compensation.

Calibrates temperature probe for quality measurements.

Inputs

One common input for pH and mV.
One common input for conductivity and dissolved oxygen.
One input for a Pt1000 automatic temperature probe.

Display

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.

The interactive LCD screen provides step by step instructions in the language of your choice (English, Dutch, French, German).

Shows a GLP report on the LCD screen.

Data-logging *(C5020 only)*

Storage memory for 300 values including temperature.

Cabinet

Robust dust and splash-proof cabinet.

Special features

Three year warranty.

Mains and rechargeable battery operation with programmable automatic switch-off.

Optional 12 V car adaptor.

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).

C5030 Bio-electronic meter

One pH/mV channel
One mV-H$_2$/mV channel
One temperature channel

rH$_2$

Bio-electronic multimeter for the study of the biological water quality according to Vincent's method.

mV-H$_2$

Features mV calibration for accurate ORP measurements.

Reads potentials referred to the standard hydrogen electrode with 1 mV resolution.

Connect a special pH/ORP combination electrode to the meter and reads rH$_2$ directly on the screen.

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rH$_2$

The rH$_2$ is a measurement for the level of electronic exchanges between water and dissolved ions. It enables to study incomplete, indeterminate and very diluted aqueous redox solutions.

SPECIFICATIONS		C50x0	C5030
pH	Range	0…14 pH	0…14 pH
	Resolution	0.01 pH	0.01 pH
	Accuracy	0.2% ± 1 digit	0.2% ± 1 digit
	Calibration	1…3 points	1…3 points
	Buffers	11 pre-programmed	11 pre-programmed
	Temperature compensation	0…100°C	0…100°C
	ISO-pH	6…8 pH	6…8 pH
	Slope	80…120%	80…120%
mV	Range	±1000 mV	±1000 mV
	Resolution	1 mV	1 mV
	Accuracy	0.2% ± 1 digit	0.2% ± 1 digit
	Calibration	1 point	1 point
rH$_2$	Range		0…42 rH$_2$
	Resolution		0.1 rH$_2$
CONDUCTIVITY	Range (cc dependent)	0…100 mS/cm *(C5010)* 0…1000 mS/cm *(C5020)*	
	Resolution (cc dependent)	0.1 µS/cm *(C5010)* 0.01 µS/cm *(C5020)*	
	Accuracy	1% f.s. of range	
	Calibration	1 point	
	Standards	3 pre-programmed	
	Cell constant (cc)	1 cm^{-1} ±30% *(C5010)* 0.1/1/10 cm^{-1}±30% *(C5020)*	
	Temperature compensation	0…100°C	
	Reference temperature	20° or 25°C	
	Temperature coefficient	natural waters (EN27888)	
SALINITY *(C5020 only)*	Range	0.0…70.0	
	Reference temperature	15°C	
TDS *(C5020 only)*	Range	0…100 g/l	
	Resolution	0.1 mg/l	
DISSOLVED OXYGEN	Range	0…20 mg/l (0…200%)	
	Resolution	0.01 mg/l (0.1%)	
	Accuracy	1% ± 1 digit	
	Calibration	1 point	
	Temperature compensation	0…50°C	
	Salinity compensation	0…40	
	Air pressure compensation	800…1200 hPa	
TEMPERATURE	Range	0…100°C	0…100°C
	Resolution	0.1°C	0.1°C
	Accuracy	0.5°C	0.5°C
	Calibration	1 point	1 point
INPUTS	pH/mV	BNC, 10^{12} Ω	BNC, 10^{12} Ω
	Conductivity/Dissolved oxygen	BNC	
	Temperature	2 banana, for Pt1000	2 banana, for Pt1000
MEMORY *(C5020 only)*	Data sets	300	300
DISPLAY	LCD	122x32 pixels	122x32 pixels
	White backlight	✓	✓
AMBIENT CONDITIONS	Temperature	0…40°C	0…40°C
	Humidity	0…95%, non condensing	0…95%, non condensing
POWER SUPPLY	Mains	100…240 VAC, 50/60 Hz	100…240 VAC, 50/60 Hz
	Low voltage	9…15 VDC	9…15 VDC
	Batteries	4x1.2 V, NiMH	4x1.2 V, NiMH
DIMENSIONS	WxDxH	10x20x4 cm	10x20x4 cm
WEIGHT	Meter	350 g	350 g

CODE	DESCRIPTION
C5010	pH/conductivity/DO meter
C5020	pH/conductivity/DO meter
C50x0P	Meter kit for pH: meter + pH/ATC electrode SP10T + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + carrying case
C50x0K	Meter kit for conductivity: meter + conductivity/ATC electrode SK10T + 50 ml conductivity standard (0.01 M KCl) + carrying case
C50x0Z	Meter kit for oxygen: meter + dissolved oxygen electrode SZ10T + carrying case
C50x0T	Meter kit complete: meter + 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
C50x0X	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
C5030	Bio-electronic meter
C5030T	Meter kit: meter + pH/°C electrode SP10T + ORP electrode SP50X + cable SC01B + 2x50 ml buffers (pH 4 and 7) + 50 ml ORP standard (358 mV) + 50 ml electrolyte (3M KCl) + carrying case
C5030L	Meter kit: meter + rH$_2$ glass combination electrode SP35B + temperature probe ST10N + 2x50 ml buffers (pH 4 and 7) + 50 ml ORP standard (358 mV) + 50 ml electrolyte (3M KCl) + carrying case
A4049	Car adaptor, 12 V (optional)

➡ **Supplied with a mains adaptor (100…240 VAC, EU/US) + 4 NiMH batteries**
(add a UK-sign for UK plug versions, e.g.:C5010-UK)