

C5030 Bio-electronic meter



One pH/mV channel
One mV-H₂/mV channel
One temperature channel

rH₂

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

mV-H₂

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 rH₂ directly on the screen.

rH₂

The rH₂ 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)	