

## C5010

pH - mV - Conductivity - Dissolved oxygen - Temperature



**pH:** 0...14 pH  
**mV:** ±1000 mV  
**Conductivity:** 0...100 mS/cm  
**Dissolved oxygen:** 0...20 mg/l / 0...200%  
**Temperature:** 0...100°C

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

CODE	DESCRIPTION
C5010	Meter only (without electrodes) + 4 NiMH batteries + mains adaptor
C5010X	Meter kit without electrodes: C5010 + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + 50 ml conductivity standard (0.01 M KCl) + carrying case
C5010P	Meter kit for pH: C5010 + pH/ATC electrode SP10T + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + carrying case
C5010K	Meter kit for conductivity: C5010 + conductivity/ATC electrode SK10T + 50 ml conductivity standard (0.01 M KCl) + carrying case
C5010Z	Meter kit for oxygen: C5010 + dissolved oxygen electrode SZ10T + carrying case
C5010T	Meter kit complete: C5010 + 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
A4049	Car adaptor, 12 V (optional)

→ Add a \$-sign for 120 VAC versions, e.g.: C5010\$, → Add a U-sign for UK plug versions, e.g.: C5010U

## C5020

pH - mV - Conductivity - Salinity - TDS - Dissolved oxygen - Temperature



**pH:** 0...14 pH  
**mV:** ±1000 mV  
**Conductivity:** 0...1000 mS/cm  
**Salinity:** 0...70 ppt  
**TDS:** 0...100 g/l  
**Dissolved oxygen:** 0...20 mg/l / 0...200%  
**Temperature:** 0...100°C

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

CODE	DESCRIPTION
C5020	Meter only (without electrodes) + 4 NiMH batteries + mains adaptor
C5020X	Meter kit without electrodes: C5020 + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + 50 ml conductivity standard (0.01 M KCl) + carrying case
C5020P	Meter kit for pH: C5020 + pH/ATC electrode SP10T + 2x50 ml buffers (pH 4 and 7) + 50 ml electrolyte (3M KCl) + carrying case
C5020K	Meter kit for conductivity: C5020 + conductivity/ATC electrode SK10T + 50 ml conductivity standard (0.01 M KCl) + carrying case
C5020Z	Meter kit for oxygen: C5020 + dissolved oxygen electrode SZ10T + carrying case
C5020T	Meter kit complete: C5020 + 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
A4049	Car adaptor, 12 V (optional)

→ Add a \$-sign for 120 VAC versions, e.g.: C5020\$, → Add a U-sign for UK plug versions, e.g.: C5020U

- pH**  
 Automatic calibration with one 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<sup>-1</sup> electrode (standard) to measure from 0.1 µS/cm to 100 mS/cm.  
 Use a 0.1 cm<sup>-1</sup> electrode to measure from 0.01 µS/cm to 10 mS/cm (C5020 only).  
 Use a 10 cm<sup>-1</sup> 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.  
 Automatic calibration with any of three preprogrammed standards (0.01, 0.1 or 1 M KCl).
- 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.  
 Low voltage DC input for a mains adaptor.
- 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**  
 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.

Specifications		C5010	C5020
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
mV	Slope	80...120%	80...120%
	Range	±1000 mV	±1000 mV
CONDUCTIVITY	Resolution	1 mV	1 mV
	Accuracy	0.2% ± 1 digit	0.2% ± 1 digit
	Calibration	1 point	1 point
	Range (cc dependent)	0...100 mS/cm	0...1000 mS/cm
	Resolution (cc dependent)	0.1 µS/cm	0.01 µS/cm
	Accuracy	1% f.s. of range	1% f.s. of range
	Calibration	1 point	1 point
SALINITY	Standards	0.01/0.1M KCl	0.01/0.1/1 M KCl
	Cell constant (cc)	1 cm <sup>-1</sup> ± 30%	0.1/1/10 cm <sup>-1</sup> ± 30%
	Temperature compensation	0...100° C	0...100° C
	Reference temperature	20° or 25° C	20° or 25° C
	Temperature coefficient	natural waters (EN27888)	natural waters (EN27888)
	Range		0...70 ppt
	Resolution		0.1 ppt
TDS	Range		0...100 g/l
	Resolution		0.1 mg/l
DISSOLVED OXYGEN	Range	0...20 mg/l (0...200%)	0...20 mg/l (0...200%)
	Resolution	0.01 mg/l (0.1%)	0.01 mg/l (0.1%)
	Accuracy	1% ± 1 digit	1% ± 1 digit
	Calibration	1 point	1 point
	Temperature compensation	0...50° C	0...50° C
	Salinity compensation	0...40 ppt	0...40 ppt
	Air pressure compensation	800...1200 hPa	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 <sup>12</sup> Ω	BNC, 10 <sup>12</sup> Ω
	Conductivity/Dissolved oxygen	BNC	BNC
	Temperature	2 banana, for Pt1000	2 banana, for Pt1000
STORAGE MEMORY	Data sets		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	210...250 VAC, 50/60 Hz	210...250 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

#### 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<sup>-1</sup>, 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