CHAUVIN ARNOUX

C.A 10101

waterproof portable pH-meter





Dare to go beyond electrochemical measurement!

Ergonomic, rugged and waterproof: the pH-meter which goes everywhere with you

Particularly comfortable to read thanks to its extra-wide, multi-display LCD screen

Efficiency: save time with guided, ultra-simplified pH calibration (up to 3 buffer solutions)

Storage of more than 100,000 time/date-stamped measurements on request (PC software included)

Signal stability indicator: to read off the right value at the right time

IP 67

Eco Conception



Data Logger Transfer
Automatic report generation

Measure up

WATERPROOF PORTABLE PH-METER

The **C.A 10101** is the first instrument in the new range of portable electrochemistry equipment launched by Chauvin Arnoux. Designed to measure pH, redox potential (ORP) and temperature, this pH-meter is ideal for mobile applications in the field, in the lab or in production. This accurate, versatile instrument has been designed for use in diverse sectors: agri-food, environment, waste water treatment, education, research, agriculture, pharmaceuticals, cosmetics, etc.

Totally leak-tight connector (whether the electrode is connected or not)

Possibility of connecting pH/redox/temperature sensors with BNC/S7/Jack plugs using adapters (see Accessories & Replacement Parts).

XRGST1 (included)

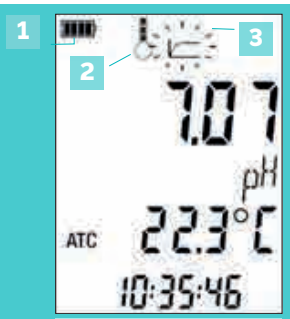
pH combination electrode, ideal for standard aqueous samples and for drinking water. Non-rechargeable gel reference system and built-in temperature sensor (Pt1000).



Electrode mounting

Reliable mounting of your pH/redox electrode on the protective sheath when measuring in the field; easy to carry in one hand.

IP67 totally waterproof casing
(including when the pH or ORP sensor is not connected)



1 / Battery status indicator

2 / Electrode status indicator: determines the status of your electrode by analysing its gradient and the offset

3 / Signal stability indicator: for a guaranteed reading of the measurement result

EASY TO CARRY IN ALL CONDITIONS



Shockproof sheath

Extra-rugged for optimum protection. Battery replacement without removing the sheath.

Extra-wide multi-display LCD screen

Clear display and easy-to-read values.

Guided calibration with a customizable list of buffer solutions.

Backlighting

Comfortable handling in areas with poor lighting.

Data storage

> 100,000 time/date-stamped measurements.



Data Logger Transfer
Automatic report generation

Data Logger Transfer

Windows®-compatible PC software for recovering the recorded measurements (samples and calibration) and configuring the instrument (available for free download from our website: www.chauvin-arnoux.com).

Micro-USB port for easy transfer onto your computer

The instrument connects to your PC like a USB drive.



Calibration in the field facilitated by the pre-filled carrying case with compartments provided for beakers.

APPLICATION SECTORS...

Environment

pH variations may be a sign of water pollution. pH testing can therefore be used to determine the extent of the pollution in domestic and industrial water reserves.



Waste water treatment

Using chemical, physical and biological processes, industrial waste water is treated to remove contaminants and then return them to the environment without affecting it. The use of portable pH/mV-meters during effluent treatment is essential for checking the operational processes and the limit values stipulated by the law.

Agri-food sector

The French and international regulations impose quality-control systems for pH and redox potential in various processes: ripening and fermentation of milk, fermentation of alcohol and wine, stability testing of canned foods, jams and syrups, meat, etc.



Agriculture

pH and redox potential are two frequently-tested parameters in agriculture because each plant should be grown within the pH/redox value range specific to it. The soil pH determines the CEC (Cation Exchange Capacity) and fertilizer solubility, as well as nutrient assimilation and solubility.

pH/redox analyses and tests are also used in other sectors such as the pharmaceutical and cosmetic industries, the chemical industry, biotechnologies and education.

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	MEASUREMENT PARAMETERS	C.A 10101	
Measurement range (instrument only)	pH	-2.00 to 16.00 pH*	
	Redox	±199.9 mV	-1999 to -200 and +200 to +1999 mV
	Temperature	-10.0 to +120.0°C / 14.0 to 248.0°F	
Resolution (R)	pH	0.01 pH	
	Redox	0.1 mV	1 mV
	Temperature	0.1 °C / 0.1 °F	
Intrinsic uncertainty of the instrument (without the electrode)	pH	± 0.01 pH ± r*	
	Redox	± 0.1 mV ± r	± 1 mV ± r
	Temperature	< 0.4°C / < 0.7°F	
Calibration	pH	Automatic, up to 3 points, 3 groups of predefined reference solutions (modifiable)	
	Redox	Automatic, 1 point, two values of predefined reference solutions (modifiable)	
Temperature compensation	Automatic (ATC) or manual (MTC), -10°C to +120°C (14°F to 248°F)		
Electrode	pH	XRGST1 (supplied), pH combination electrode with built-in temperature sensor (Pt1000), 8-pin DIN connector	
	Redox	XRPTST1 (option), ORP combination electrode with built-in temperature sensor (Pt1000), 8-pin DIN connector	
Data storage	Date and time	Yes	
	Memory	> 100,000 measurements	
Connectors	Sensor input	8-pin DIN (adapters for BNC, S7 and Jack available as options)	
	Communication interface	Micro-USB type B (USB peripheral)	
Batteries / Battery life	4 x 1.5 V AA or LR6 alkaline batteries / Approx. 300 hours in continuous use Auto power-off after 3, 10 or 15 min of inactivity (adjustable)		
Ingress protection	IP67		
Environmental conditions	Storage location (excluding batteries, electrodes and buffer solutions)	-20 to + 70°C	
	Operating range	-10 to +55 °C	
Dimensions (with sheath)	211 x 127 x 54 mm		
Weight (without electrode)	600 g		
Warranty (instrument only)	2 years		

Instrument + XRGST1 pH electrode: pH 1.00 to 12.00 (0...60°C)

Standard state at delivery



One C.A 10101 pH-meter delivered in a site-proof case with 1 pH combination electrode with built-in XRGST1 temperature sensor, 4 x AA or LR6 alkaline batteries, 1 protective sheath mounted on the instrument, 2 ready-to-use pH 4.01 and pH 7.00 buffer solutions (compliant with NIST/DIN), 2 plastic beakers, 1 USB - micro USB cable, 1 wrist strap, quick start guides (one per language).

(Complete user's manual available from the Chauvin Arnoux website)

To order

C.A 10101 pH-meter..... P01710010

ACCESSORIES & REPLACEMENT PARTS

XRGST1 pH combination electrode with built-in temperature sensor P01710051
XRPTST1 ORP combination electrode with built-in temperature sensor P01710052
pH 1.68 buffer solution (NIST)**, 125 mL P01700105
pH 4.01 buffer solution (NIST), 125 mL P01700106
pH 7.00 buffer solution (NIST), 125 mL..... P01700107
pH 9.18 buffer solution (NIST), 125 mL P01700108
pH 10.01 buffer solution (NIST), 125 mL P01700109
220 mV ORP buffer solution, 125 mL P01700114
468 mV ORP buffer solution, 125 mL P01700115
Storage solution for KCl 3M electrodes.....P01700121
Shockproof sheath P01710050
Set of 3 beakers P01710056
Adapter: 8-pin DIN to BNC & Jack*** P01295501
Adapter: 8-pin DIN to S7 & Jack.....P01295502

***Delivered with a quality certificate guaranteeing compliance with the NIST (National Institute of Standards and Technology) and DIN 19266 standards*

****Connection adapters for Chauvin Arnoux pH/redox and temperature sensors*

To see our "electrodes and temperature sensors" range, please visit our website at www.chauvin-arnoux.com

FRANCE
Chauvin Arnoux
190, rue Championnet
75876 PARIS Cedex 18
Tel: +33 1 44 85 44 38
Fax: +33 1 46 27 95 59
export@chauvin-arnoux.fr
www.chauvin-arnoux.com

UNITED KINGDOM
Chauvin Arnoux LTD
Unit 1 Nelson Ct, Flagship Sq, Shaw Cross Business Pk
Dewsbury, West Yorkshire - WF12 7TH
Tel: +44 1924 460 494
Fax: +44 1924 455 328
info@chauvin-arnoux.co.uk
www.chauvin-arnoux.com

MIDDLE EAST
CHAUVIN ARNOUX MIDDLE EAST
P.O. BOX 60-154
1241 2020 JAL EL DIB - LEBANON
Tel: +961 1 890 425
Fax: +961 1 890 424
camie@chauvin-arnoux.com
www.chauvin-arnoux.com

CHAUVIN ARNOUX

906211585 - Ed. 1 - EGFM - 04/2019 - Non-contractual document. Specifications liable to be modified due to technological developments.