

Applications

- Drinking Water
- Sewage
- Process control

CA9300 Controller



Economical Meets Exceptional: Real-Time pH, ORP & Conductivity Control for Industrial Water Quality

CA9300 is a new economical analog single-channel controller. This product mainly includes two models of pH/ORP and conductivity, which can be connected to a variety of Hach analog electrodes, and has more new features.

Easy operation and reliable results

- Friendly operation interface, with a 3.5-inch English color screen operation interface
- Clear menu layout, reliable results and easier operation

Sturdy Design

Equipped with aluminum housing, IP65 protection level, which can meet the requirements of most applications.

Complete conventional functions, various installation methods and flexible configuration

- Power Supply: 100 - 240 VAC 50/60 Hz $\pm 10\%$
- Communication: two analog 4 - 20 mA outputs; one MODBUS RS485 interface
- Installation method: panel mounted/wall mounted/pipe mounted
- Dual relays, flexible configuration

Technical Data*

Parameter	pH & ORP	Conductivity
Cell Constant k		0.01, 0.05, 0.1, 0.5, 1, 5, 10 cm ⁻¹
Range	pH: 0.00 - 14.00 pH ORP: -1500 - 1500 mV	k=0.01 cm ⁻¹ : 0.01 µS/cm - 200 µS/cm k=0.05 cm ⁻¹ : 0.05 µS/cm - 1 mS/cm k=0.1 cm ⁻¹ : 0.1 µS/cm - 2 mS/cm k=0.5 cm ⁻¹ : 0.5 µS/cm - 10 mS/cm k=1 cm ⁻¹ : 1 µS/cm - 20 mS/cm k=5 cm ⁻¹ : 5 µS/cm - 100 mS/cm k=10 cm ⁻¹ : 10 µS/cm - 200 mS/cm
Resolution	pH: 0.01 pH ORP: 0.1 mV	
Compatible Instruments	PHD Series pH/ORP Sensors 3/4" Combination pH/ORP Sensors Polymetron 8350/8351 Composite pH/ORP Sensors Analog Sensors	3400 Series Conductivity Sensors Polymetron 831X Series Conductivity Sensors Analog Sensors

General Controller Specifications

Temperature Range	-5.0 - 105.0 °C
Temperature Accuracy	± 0.2 °C
Temperature Resolution	0.1 °C
Temperature Sensor	PT100 PT1000 NTC300
Display	3.5 inches, TFT color LCD screen, resistive touch screen
Display Resolution	320 x 240 px
Analog Outputs	2x 4 -20 mA current outputs; load impedance ≤ 500 Ω
Communication	Modbus RS485
Operating Temperature Range	-20 - 60 °C, max. 90% relative humidity (non-condensing)
Storage Conditions	-20 - 70 °C, max. 90% relative humidity (non-condensing)
Protection Class	IP65
Relays	2 channels; corresponding parameters and temperature upper and lower limit alarm; contact type-SPST normally open, 5A 30 VDC, 5A 250 VAC
Cable	Cable Gland: 2 x M18 x 1.5, 2 x M20 x 1.5
Altitude	< 2000 m
Dimensions (H x W x D)	144 mm x 144 mm x 150 mm
Weight	2 kg without sensor
Material	Aluminum Alloy Polyester Coated
Power Requirements (Voltage)	100 - 240 VAC
Power Requirements (Hz)	50/60 Hz

*Subject to change without notice.

Order Information

CA9300.0100EN CA9300 Controller for pH/ORP, 100-240 VAC

CA9300.0200EN CA9300 Controller for Conductivity, 100-240 VAC



World Headquarters: Loveland, Colorado USA | hach.com

United States 800-227-4224 fax: 970-669-2932 email: orders@hach.com
Outside United States 970-669-3050 fax: 970-461-3939 email: intl@hach.com

©Hach Company, 2025. All rights reserved.

In the interest of improving and updating its equipment, Hach Company reserves the right to alter specifications to equipment at any time.

DOC053.53.35370.Oct25