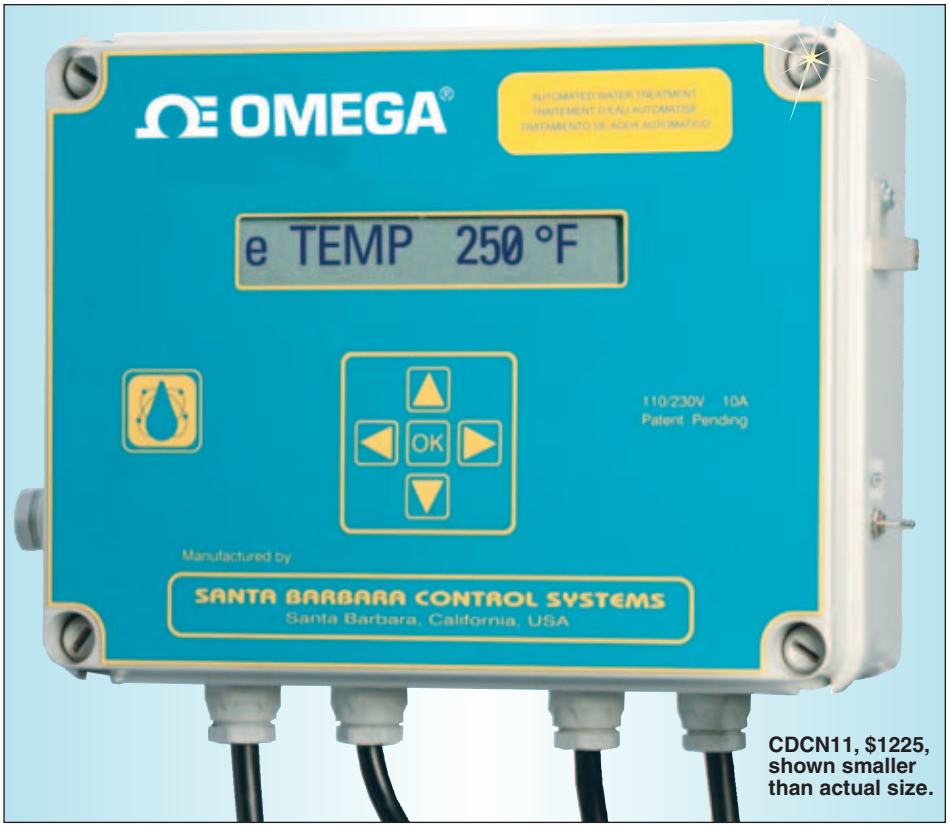
Conductivity and pH Water Treatment Controllers

CDCN Series
Starts at
$1225

1 YEAR WARRANTY — MADE IN USA



CDCN11, $1225, shown smaller than actual size.

Common Features

- Digital Conductivity Display and Control
- Temperature Display
- Three Chemical Feed Programs (Conductivity, pH and Additive)
- Langelier Saturation Index for Water Balance
- Chemical Level Alarm
- Integral Data Logging for up to 999 Points With RS232 Communications
- Time-Based Chemical Level Alarm
- NEMA 4X Wall Mount Enclosure
- Remote Computer Operation with Windows Software

Model CDCN11

- One Line LCD Readout with 5-Button Keypad
- Relays for 3 Additive Programs, Bleed and Alarm
- Conductivity/Temperature, Water Meter and Flow Switch Inputs
- Watermeter Totalizer Function

Model CDCN12

- 4-Line LCD Readout with 16-Key Numeric Keypad
- Probe Failure Indication and Alarm
- 4 Relays for Additives and/or Alarm
- Quick Release Enclosure Design for Fast Access and Wiring

Options Include

- pH Control
- Safety Flow Switch
- RS485 Communications

The CDCN10 Series is specifically designed to measure conductivity/dissolved solids and pH in cooling towers, boilers, industrial process water, food processing, drinking water and wastewater treatment applications. The CDCN10 Series conductivity/pH controllers are highly accurate and easy to install and operate. Engineering units can be displayed in either US or metric values using the pushbutton keypad and the simple scroll-through menus. Both units control conductivity, with the ability to control 3 additive feed programs. You can get a readout of the probe temperature. pH measurement and control is optional on both units, as is a safety flow switch contact, and RS485 communications.

The CDCN12 has additional features over the standard CDCN11, including dynamic probe failure testing for pH/ORP sensors, allowing the controller to detect a probe failure quickly after it occurs, so the user can avoid dangerous out-of-range conditions. For convenience, the CDCN12 features a large 4-line LCD readout and 16-button keypad.

CDCN12-PH, $2300 with PHE10 pH electrode, $195, shown smaller than actual size.

Our Conductivity Instruments product line continues to expand, visit omega.com for new details!

For Sales & Service
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Specifications

Measurement Range:
Conductivity: 0 to 20,000 µS/cm or ppm; conversion factor for TDS
pH: 0 to 14 pH; setpoint for acid or base feed
Accuracy:
Conductivity: ±1% rdg
pH: ±0.1 pH
Resolution:
Conductivity: 1µS
pH: 0.01 pH
Temperature Range: -18 to 60°C (0 to140°F)
Watermeter Input: For totalizer function, CDCN11 only
Sensor Calibration: 1, 2 or 3 points
Control Modes: Off, manual, auto, timer, bleed and feed, bleed-then-feed, daily schedule
Langelier Index: Water balance display calculated from pH, temp, total alkalinity and calcium hardness
Alarms: High/low, out-of-range, overfeed and total run time; visual, audible and external (5 A) alarms
Data Logging: On-board memory for 999 tests; RS232 communication port for local download and printing
Networking: RS485 port for multiple connections (optional)
Remote Operation: Software and graphical display for Windows®
Power: 115/230 Vac, 10 A
Control Outputs: 5 A relays, SPST
CDCN11 Relays: 3 additive, one alarm, one bleed
CDCN12 Relays: 2 additive, one additive/alarm (selectable), one bleed
Probe Sensor Failure: CDCN12 only, for pH/ORP electrode
Display:
CDCN11: One line LCD; 5-button keypad
CDCN12: Four line LCD; 16-button keypad
Mechanical: NEMA 4X enclosure
Dimensions:
CDCN11: 240 x 190 x 90 mm (9.5 x 7.5 x 3.5")
CDCN12: 285 x 234 x 155 mm (11.21 x 9.21 x 6.09")
Shipping Weight:
CDCN11: 2.7 kg (6 lb)
CDCN12: 6.0 kg (13 lb)

MOST POPULAR MODELS HIGHLIGHTED!

To Order ***(Specify Model Number)***

Model No.	Price	Input	Communications	Keypad/Display
CDCN11	**$1225**	Conductivity	RS232	5-button/one line
CDCN11-PH	**1875**	Conductivity/pH	RS232	5-button/one line
CDCN11-485	**1775**	Conductivity	RS232, RS485	5-button/one line
CDCN11-PH-485	**2425**	Conductivity/pH	RS232, RS485	5-button/one line
CDCN12	**1650**	Conductivity	RS232	16-button/four line
CDCN12-PH	**2300**	Conductivity/pH	RS232	16-button/four line
CDCN12-485	**2200**	Conductivity	RS232, RS485	16-button/four line
CDCN12-PH-485	**2850**	Conductivity/pH	RS232, RS485	16-button/four line

Accessories (Recommended Buffer and Conductivity Solutions)

Model No.	Price	Description
CDE10	**$205**	Conductivity sensor
CDE10HP	**375**	High pressure conductivity sensor
PHE10	**195**	pH electrode
PHE10HP	**335**	High pressure pH electrode
FSW10S	**170**	Shuttle style flow switch
FSW10B	**170**	Blade style flow switch
PHA-4	**5**	4.00 pH buffer solution, 500 mL (1 pt) bottle
PHA-7	**5**	7.00 pH buffer solution, 500 mL (1 pt) bottle
PHA-10	**5**	10.00 pH buffer solution, 500 mL (1 pt) bottle
CDSA-45	**10**	45 µmho/cm conductivity solution, 946 mL (1 qt)
CDSA-1413	**23**	1413 µmho/cm conductivity solution, 946 mL (1 qt)
CDSA-1500	**10**	1500 µmho/cm conductivity solution, 946 mL (1 qt)

Comes complete with operator's manual and 3V lithium battery. Probes sold separately.

Note: *When ordering the conductivty or pH controller, it is recommended to purchase pH buffer solution, such as PHA-7, pH buffer 7 and conductivity standard solution, such as CDSA-1413, 1413 µS/cm,* ***$23.***

Ordering Examples: CDCN11, *conductivity controller,* ***CDE10,*** *conductivity sensor,* ***CDSA-1413,*** *conductivity standard solution, 1413 µS/cm, $1225 + 205 + 23 =* ***$1453.***

CDCN12-PH, *conductivity/pH controller with 4 to 20 output,* ***PHE10,*** *pH electrode,* ***PHA-7,*** *pH 7 buffer solution, $2300 + 195 + 5 =* ***$2500.***

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- **pH and Conductivity**

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

- **Data Acquisition**

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ehernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

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