



Mini Panel-Mount Conductivity and TDS Controllers

CDCN201



CDCN202, comes with electrode CDE202.



CDCN201, comes with electrode CDE201.



CDCN204, comes with electrode CDE201.

All products shown smaller than actual size.

- ✓ Simple One-Point Calibration
- ✓ Compact, Practical, and Convenient
- ✓ Activation Relay to Start/Stop Valve or Pump
- ✓ Easy to Mount with Brackets Included

The CDCN200 Series mini controllers have been specially designed for water conditioning applications. They are miniaturized to an 8 x 5 cm (3 x 2") dimension so that they can be mounted right on the water softening equipment. Due to their compact size, these meters are ideal for softeners that do not incorporate a controller and leave the controlling to manual checks. The conductivity and TDS values are displayed in large digits on the LCD. There are even LEDs to indicate whether the relay is active. CDCN201 and CDCN202 measure conductivity from 0 to 1999 $\mu\text{S}/\text{cm}$ and 0.00 to 10.00 mS/cm , respectively. CDCN203 and CDCN204 check and control TDS from 0.00 to 10.00 ppt and 0 to 999 ppm, respectively. CDCN203 and CDCN204 operate with a conversion rate of 0.50 between TDS and conductivity, which fits the water conditioning and softening applications best. A built-in

relay terminal is activated when the measurements are above the setpoint. This allows for the conductivity to be lowered to the desired threshold. In order to adjust the setpoint or calibrate the controllers, simply turn the relevant trimmer positioned on the front panel. The controllers are easy to install and come with probes and mounting brackets. The CDE201 and CDE202 probes have $\frac{1}{2}$ " external threads so that they can be installed directly in the softener's pipe. The probes incorporate a fast-responding temperature sensor. The 2 m (6.6') lead ends in a 5-wire terminal, which incorporates an anti-noise wire, particularly important when working in an environment with running pumps or machinery. Temperature affects EC and TDS to the tune of 2% per degree. These mini controllers compensate for temperature automatically. In order to provide the best solution for your application, the meters are available in three models. Standard units run on 100 to 110V or 220 to 240V, or opt for the 12 Vdc version with the transformer included in the low price.



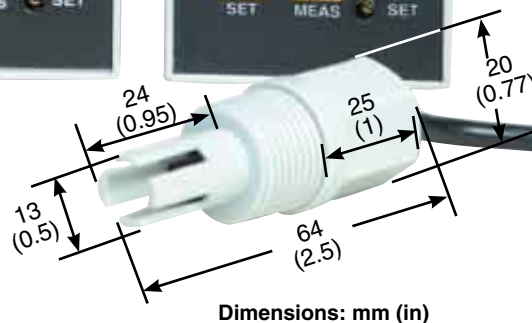
CDCN202, comes with electrode CDE202.

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CDCN204, comes with electrode CDE201.



All products shown smaller than actual size.



Specifications

Range:

- CDCN201:** 0 to 1999 $\mu\text{S}/\text{cm}$
- CDCN202:** 0.00 to 10.00 mS/cm
- CDCN203:** 0.00 to 10.00 ppt
- CDCN204:** 0 to 999 ppm

Resolution:

- CDCN201:** 1 $\mu\text{S}/\text{cm}$
- CDCN202:** 0.01 mS/cm
- CDCN203:** 0.01 ppt
- CDCN204:** 1 ppm

Accuracy [@ 20°C (68°F)]: $\pm 2\%$ FS,
CDCN204: $\pm 1\%$ FS

Calibration: 1 point adjustable

Temperature Compensation: Automatic from 5 to 50°C (41 to 122°F)

Setpoint: SPST 5A relay adjustable with trimmer throughout the range

Relay Control: Activated when the reading is higher than the setpoint

Thread Size: 1/2 NPT

Power Supply: 110/115V, 50 to 60 Hz; 220/240V, 50 to 60 Hz; 12 Vdc adaptor (optional)

Environment:

0 to 50°C (32 to 122°F); 95% RH

Dimensions: 79 x 49 x 95 mm (3.1 x 1.9 x 3.8")

Weight: 150 g (5.3 oz)

Probe Specifications

Body Material: Ultem®

Working Temperature:

0 to 80°C (32 to 176°F)

Max. Pressure [@ 25°C (77°F)]:

6 bar (87 psi)

Dimensions: 64 L x 20 mm Hex

(2.5 x 0.77")

Cable Length: 2 m (6.6')

To Order Visit omega.com/cdcn201 for Pricing and Details

Model No.	Range	Description
CDCN201	0.00 to 1999 $\mu\text{S}/\text{cm}$	Conductivity controller and electrode
CDCN202	0.00 to 10.00 mS/cm	Conductivity controller and electrode
CDCN203	0.00 to 10.00 ppt	TDS controller and electrode
CDCN204	0.00 to 999 ppm	TDS controller and electrode

Accessories

Model No.	Description
CDE201	Replacement electrode for CDCN201 and CDCN204
CDE202	Replacement electrode for CDCN202 and CDCN203
CDSA-450	450 μS conductivity standard, 1 qt
CDSA-150010	1500 μS conductivity standard, 1 qt
CDSA-450010	4500 μS conductivity standard, 1 qt

Comes complete with electrode, mounting brackets and operator's manual.

For 12 Vdc operation, add suffix "-12VDC", no additional charge.

Ordering Examples: CDCN201, conductivity controller and electrode.

CDCN204, TDS controller and electrode.

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