



Conductivity, Resistivity or TDS Controller

CDCN-961



- ✓ Menu-Driven Programming
- ✓ NEMA 4X (IP65) Protection
- ✓ Programmable High/Low, and Alarm Relays
- ✓ Dual Backlit LCD
- ✓ Calibration Reminder Via Alarm Relay Setting
- ✓ Isolated 0.4 to 20 mA Output
- ✓ RS485 Output

Applications

- ✓ Waste Water Treatment
- ✓ Power Plants
- ✓ Thermo-Electric Plants
- ✓ Pharmaceutical
- ✓ Photographic Industries
- ✓ Soft Drink Industries

The CDCN-961 conductance, resistance or total dissolved solids (TDS) controller is designed for inline monitoring of process solutions and water applications.

The CDCN-961 has simple menu driven programming for easy setup. Available relays can be programmed for control, alarm or as a calibration reminder. The transmitter output is also programmable from the keypad eliminating the need for potentiometer or dip-switch settings. The calibration function automatically recognizes the buffer solution resulting in a simple and straight forward system calibration.

Specifications

Conductivity Range:

0.000 to 3.000, 30.00, 300.0 $\mu\text{S}/\text{cm}$
0.000 to 3.000, 30.00, 300.0 mS/cm

Resistivity Range:

0.3 to 30.0 $\text{M}\Omega\text{cm}$
3 to 300 $\text{M}\Omega\text{cm}$



CDCN-961 back view



CDCN-961 with CDE-961 probe/cell (included), shown smaller than actual size.

TDS Range:

0.000 to 3.000, 30.00, 300.0 ppm
0.000 to 3.000, 30.00, 300.0 ppt

Resolution:

0.001/0.01/0.1 $\mu\text{S}/\text{cm}$
0.001/0.01/0.1 mS/cm
0.1 $\text{M}\Omega\text{cm}$

Accuracy: $\pm 1\%$ FS

Temperature Range: -0.5 to 130°C (31.1 to 266°F)

Temperature Resolution / Accuracy: 0.1°C/ $\pm 0.5^\circ\text{C}$

Cell Constant: K = 0.01, 0.1, 1, 10

Line Resistance Compensation: 0.0 to 20.0 Ω

Temperature Sensor: Pt1000

Signal Output/Load: 0/4 to 20 mA/600 Ω

Output Interface: RS485

Relay Specification: 3 SPST/250V 1A

Control Hysteresis Band: 0.1 to 10% FS

Frequency of Cleaning Time: 1 to 999 hours
1 to 999 seconds

EMC Standard: EN 50081-1/EN 50082-1

Operation Temperature: -10 to 50°C (14 to 122°F)

Operation Humidity: 10 to 95%

Housing: NEMA 4X (IP65)

Dimensions: 100 W x 108 L x 136 Dia mm
(3.93 x 4.25 x 5.35")

Panel Cutout: 93.5 L x 93.5 W mm (3.68 x 3.68")

Weight: 1650 g (58 oz)

Accessory:

Conductivity Electrode: K=1.0

Material: PPS/graphite

Test Range: 0 to 50.0 mS/cm

Temperature Range: 0 to 80°C (32 to 176°F)

Temperature System: Pt1000

Cable: 5 m (16.4')

To Order

| Model No. | Description |
|-----------|---|
| CDCN-961 | Conductivity resistivity TDS controller |
| CDE-961 | Replacement probe/cell |

Comes complete with probe/cell and operator's manual.