

# 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  $\mu$ S/cm  
0.000 to 3.000, 30.00, 300.0 mS/cm

### Resistivity Range:

0.3 to 30.0 M $\Omega$ cm  
3 to 300 M $\Omega$ cm



### 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  $\mu$ S/cm  
0.001/0.01/0.1 mS/cm  
0.1 M $\Omega$ 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°C

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

**Line Resistance Compensation:** 0.0 to 20.0  $\Omega$

**Temperature Sensor:** Pt1000

**Signal Output/Load:** 0/4 to 20 mA/600 $\Omega$

**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.