

### CDTX-111/ CDTX-112



- ✓ On/Off Relay Outputs
- ✓ Economical
- ✓ Automatic or Manual Temperature Compensation
- ✓ Selectable Zero and Span Analog Output



CDTX-111

Industrial process conductivity/temperature controllers CDTX-111 and CDTX-112 are panel instruments for in-process monitoring of conductivity. Range switch over and cell constant checks can both be freely set and adjusted during operation. Unique signal collection and processing technology, and a special thick film circuit are employed to ensure accurate measurements and stable operation. Other features include linearized data, automatic temperature compensation, and maintenance-free cells. The control functions trigger relays based on conductivity setpoints. The CDTX-111 and CDTX-112 are ideal auxiliary instruments for many types of water testing applications.

Both models shown smaller than actual size.



CDTX-112

### SPECIFICATIONS

#### Display Type

CDTX-111: LED, 13 mm height

CDTX-112: LCD, 13 mm height

**Measurement:** 0 to 18 MΩ or 0 to 19.99 μS/cm

#### Range (Depending upon cell constant)

CDTX-111: 0 to 199.9 μS/cm; 0 to 1999 μS/cm

CDTX-112: 0 to 999.9 μS/cm; 0 to 9999 μS/cm,

0 to 100mS/cm, 0 to 600 mS/cm

**Temperature:** 0 to 100°C (32 to 212°F)

**Resolution:** 0.01 MΩ

CDTX-111: 0.01 to 1 μS/cm

CDTX-112: 0.01 to 0.01 mS/cm

**Temperature:** 0.1°C (32.1°F)

**Accuracy:** ±1% FS, ± 0.2°C

**Temperature:** Automatic/manual

**Compensation:** 0 to 100°C (32 to 212°F)

**Output Relays:** 2 programmable, 10 A

**Control Type:** On/off

**Relay Set Point Hysteresis:** User programmable

#### Current Output

**Type:** Isolated 4 to 20 mA

**Range:** Selectable zero and span

**Accuracy:** ±0.02 mA

**Maximum Load:** 750 Ω

**Power Supply:** AC 110V to 220V ±10%, 50/60 Hz

#### Weight

CDTX-111: 580 g (20.4 oz)

CDTX-112: 650 g (22.9 oz)

#### Dimensions

CDTX-111: 96 × 48 × 110 mm (3.78 × 1.89 × 4.33")

CDTX-112: 96 × 96 × 110 mm (3.78 × 3.78 × 4.33")

**Mount Type:** Panel

#### Cut-Out Size

CDTX-111: 92 × 44 mm (3.6 × 1.73")

CDTX-112: 92 × 92 mm (3.6 × 3.6")

**Enclosure Rating:** IP54

**Environmental Operating Ambient Temperature:** -10 to 55°C (14 to 131°F)

#### Requirements

**Relative Humidity:** 5 to 95% non-condensing

**Maximum Operating Altitude:** 3000 m (10,000')



## Accessory Specifications

Model No.	CDE-100-001	CDE-100-01	CDE-100-1	CDE-100-10	CDE-100-30
Cell Constant	K = 0.01	K = 0.1	K = 1	K = 10	K = 30
Measurement	0 to 18 M $\Omega$ or 0 to 19.99 $\mu$ S/cm	0 to 999.9 $\mu$ S/cm	0 to 9999 $\mu$ S/cm	0 to 100 mS/cm	0 to 600 mS/cm
Range	0 to 80°C (32 to 176°F)	0 to 80°C (32 to 176°F)	0 to 80°C (32 to 176°F)	0 to 80°C (32 to 176°F)	0 to 80°C (32 to 176°F)
Accuracy	±1% FS	±1% FS	±1% FS	±1% FS	±1% FS
Temperature Accuracy	±0.2°C	±0.2°C	±0.2°C	±0.2°C	±0.2°C
Temperature Sensor	10 k	10 k	10 k	10 k	10 k
Operating Temperature	0 to 80°C (32 to 176°F)	0 to 80°C (32 to 176°F)	0 to 80°C (32 to 176°F)	0 to 80°C (32 to 176°F)	0 to 80°C (32 to 176°F)
Operating Pressure	0.6 MPa	0.6 MPa	0.6 MPa	0.6 MPa	0.6 MPa
Thread Size	¼ NPT	¼ NPT	¼ NPT	¼ NPT	¼ NPT
Cables Length	5 m (16.4')	5 m (16.4')	5 m (16.4')	5 m (16.4')	5 m (16.4')
Enclosure Rating	IP68	IP68	IP68	IP68	IP68
Sensor Diameter/Length	16 x 65 mm (0.63 x 2.5")	16 x 65 mm (0.63 x 2.5")	16 x 65 mm (0.63 x 2.5")	23 x 40 mm (0.9 x 1.6")	23 x 135 mm (0.9 x 5.3")
Outer Tube Material	316 SS	316 SS	316 SS	ABS	PPS
Sensor Material	316 SS	316 SS	316 SS	Platinum and Glass	Platinum

## To Order

Model No.	Description (Sensors Sold Separately)
CDTX-111	Conductivity monitor and controller, ½ DIN
CDTX-112	Conductivity monitor and controller, ¼ DIN

Comes complete with operator's manual.

## Accessories

Model No.	Description (Electronics Sold Separately)
CDE-100-001	Conductivity cell, constant = 0.01 for 0 to 600 mS/cm
CDE-100-01	Conductivity cell, constant = 0.1 for 0 to 600 mS/cm
CDE-100-1	Conductivity cell, constant = 1.0 for 0 to 600 mS/cm
CDE-100-10	Conductivity cell, constant = 10.0 for 0 to 600 mS/cm
CDE-100-30	Conductivity cell, constant = 30.0 for 0 to 600 mS/cm