Conductivity and Temperature Monitor and Controller

CDTX-111/ CDTX-112

1 YEAR WARRANTY

CDTX-111

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

Both models shown smaller than actual size.

CDTX-112

Industrial online conductivity/ temperature controller CDTX-111/ CDTX-112 is a panel instrument for online monitoring of industrial process conductivity. Range switch over and cell constant check can both be freely set and adjusted through the operation; unique signal collecting and processing technology and special thick film circuit are adopted to make measurement accurate and operation stable; other features include linearized data, automatic temperature compensation, not subject to the length change of cable and maintenance-free cells. It has control function, including setting of over limit of conductivity, and the outputs are control contacts. It's an ideal auxiliary instrument of various types of small pure water equipment.

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 x 1.89 x 4.33")
CDTX-112: 96 × 96 × 110 mm (3.78 x 3.78 x 4.33")
Mount Type: Panel
Cut-Out Size
CDTX-111: 92 × 44 mm (3.6 x 1.73")
CDTX-112: 92 × 92 mm (3.6 x 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 MΩ or 0 to 19.99 µS/cm	0 to 999.9 µS/cm	0 to 9999 µS/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	¾ NPT	¾ NPT	¾ NPT	¾ NPT	¾ 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, ⅛ 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