

# CCI100

## INLINE LED CONDUCTIVITY INDICATOR



### OVERVIEW

CCI 100 series conductivity meters are extremely versatile conductivity meters that can be used for a wide variety of applications. These meters offer extreme reliability and low cost for conductivity measurement.

CCI 100 series conductivity meters can be used for water and water like liquids including acids and alkalis. These meters can also be used for any line size. Microprocessor based instrumentation ensures accurate readings for Conductivity, TDS and Temperature. A number of programmable features including Inline calibration are standard features. All models offer relay outputs with user programmable set points.

Industry standard 4-20mA output is also available on select models. All models offer comprehensive equalizations for temperature variations. CCI 100 includes a built-in electronic temperature sensor with an accuracy of  $\pm 1$  C. This temperature can be viewed on the display whenever needed. The user can also program the equalization factor which is in the following format.

$$CT = C25 (1 + TC (T - 25))$$

CT – Actual conductivity of the liquid at measured temperature

C25 – Conductivity at 25 °C

TC – Temperature coefficient of the liquid

T – Temperature in °C

### FEATURES

- Conductivity Indication in  $\mu\text{S}/\text{cm}$
- TDS indication in ppm
- 0-40, 0-200, 0-400, 0-1000, 0-2000, 0-5,000, 0-10,000 ranges
- 4 1/2 digit LED display
- Control Relay Output
- Programmable 4-20mA output
- 96x96 Panel Mount Enclosure



## SPECIFICATIONS

Model	CCI100
Indication	4½ Digit 1-Line LED
Max. Operating Pressure	10 Kg/cm <sup>2</sup>
Power Supply	220 VAC ±15%
Voltage Drop	2.5V Maximum (Applicable only for current input models)
Percentage Solids	Size not exceeding 100 microns diameter and length
Conductivity Range	0 – 200 uS/cm, 0 – 400 uS/Cm, 0 – 1000 uS/cm, 0 – 2000 uS/cm, 0 – 10,000 uS/cm
Max. Operating Temperature	70 °C
Storage Temperature	0 - 80° C
Relative Humidity	0% - 85% RH (non-condensing)
Accuracy	±1% full scale
Relay Output Rating	5 VDC at 1A max.
MOC	Transducer housing - Polypropelene, O Rings – Viton, Rotor – PVDF, Shaft – PVDF / HastalloyC
Voltage	220 V ~ AC ±15% or 8-24VAC/DC (Factory configurable)
Program Variables	Stored in non-volatile EEPROM memory. No battery backup required
Housing	Panel Mount (96mm x 96mm x 110mm)
Relay Output	2
Current Output	4-20mA



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