

Conductivity Controller



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 ± 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 Deg C



ADVANTAGES

- Conductivity Indication in uS/cm
- TDS indication in ppm
- 0-40, 0-200, 0-400, 0-1000, 0-2000, 0-5,000, 0-10,000 ranges
- 4 digit LED display
- Control Relay Output
- Programmable 4-20mA output
- 96x96 Panel Mount Enclosure





CCI 100 SPECIFICATIONS

Indication	4 Digit 1-line LED
Max. Operating Pressure	10 Kg/cm ²
Power supply	220 VAC ± 15 %
Power Consumption	1 Watt maximum
Voltage Drop	2.5V Maximum (Applicable only for current input models)
Percentage Solids	size not exceeding 100 microns size in diameter and length
r	Available on request
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
Humidity	0 – 80 non condensing
Accuracy	+/- 1% of full scale
Relay Output Rating	5 VDC at 1A maximum
M.O.C	Transducer housing - Polypropelene, O Rings – Viton, Rotor – PVDF, Shaft – PVDF / HastalloyC
Voltage	220VAC +-15% or 8 to 24VAC/DC (Factory Settable)
Program Variables	Saved in non-volatile EEPROM. No battery backup necessary.
	Data retention 100 years maximum
Housing	Panel mount (96mm x 96mm x 110mm)

Optional Features

Power supply	12 – 24 VDC (Factory settable only)
Relay output	2
Current output	4-20 mA