

# PC CON100 Loop-Powered Contacting Conductivity Transmitter



## General Description

Potence Controls PC Series isolated output 4-20mA industrial transmitter, a sturdy microprocessor-based instrument, measures conductivity and temperature. It transmits conductivity measurements via a two-wire power supply loop. The industrial transmitter has many user friendly features - all of which are

easily accessible via the water resistant membrane keypad. Ideal for connecting to a PLC for advanced control systems, the transmitter can also be connected to a recorder for a low-cost documentation system. The instrument housing is designed for panel or wall mounting.

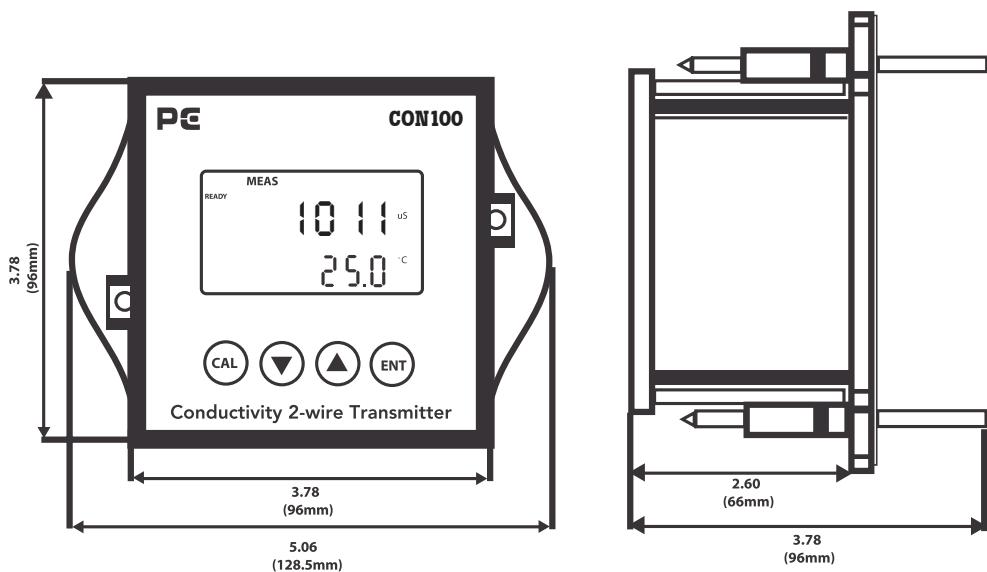
## Standard Features

- Six selectable conductivity ranges 4-20mA ISO lated output
- Out-of-range Output Current Indicator indicates an out-of-range measurement by emitting a 3.8mA output current
- Hold Output Current Indicator to indicate 'HOLD' mode during calibration or set up mode
- Scaleable 4-20 mA Current Output
- Primary and secondary display for simultaneous display of Conductivity and Temperature values
- Easy Push Button Operation
- Automatic (with Pt 100) or manual Temperature Compensation
- Panel or Wall Mount, Nema 4x, IP65 Weatherproof Housing

## Specifications

Conductivity Ranges	: R1: 0-19.99 $\mu\text{S}/\text{cm}$ , 0.01 $\mu\text{S}/\text{cm}$ resolution	Cell Constants..... : k=0.1, R1-R5
	R2: 0-199.9 $\mu\text{S}/\text{cm}$ , 0.1 $\mu\text{S}/\text{cm}$ resolution	k=1.0, R1-R6
	R3: 0-1999 $\mu\text{S}/\text{cm}$ , 1 $\mu\text{S}/\text{cm}$ resolution	k= 10.0, R2-R6
	R4: 0-10.00 mS/cm, 0.01 mS/cm resolution	Temperature Resolution..... : 0.1 $^{\circ}\text{C}$ (0.1 $^{\circ}\text{F}$ )
	R5: 0-19.99 mS/cm, 0.01 mS/cm resolution	Relative Temperature Accuracy. : $\pm 0.5$ $^{\circ}\text{C}$ ( $\pm 0.9$ $^{\circ}\text{F}$ )
	R6: 0-199.9 mS/cm, 0.1 mS/cm, resolution	Sensor Pt100..... : (3 wire / 2 wire)
Accuracy.....	: $\pm 1\%$ of full scale reading in respective range	Temperature Compensation..... : Auto/Manual
Temperature.....	: 0 $^{\circ}\text{C}$ to 100 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 212 $^{\circ}\text{F}$ )	Cell Constant User-Selectable.... : (0.10 to 10.00)
Output.....	: 4.0-20.0mA (Galvanically isolated)	Temperature Coefficient..... : 0 to 10% (selectable)
Display.....	: Dual Display Custom LCD	Normalization Temperature..... : 20.0 $^{\circ}\text{C}$ to 25 $^{\circ}\text{C}$
		Power Requirements..... : 12 to 24V DC, maximum 600 Ohm load
		Dimension..... : 96 x 96 x 66 mm (3.78 x 3.78 x 2.6 inch)
		Weight..... : 210 g
		Certifications..... : CE

## Dimensional Drawing



## Ordering Information

Part No.	Description
PC CON100	: 2-Wire Transmitter / Indicator, 4-20 mA output for Panel, Field, Wall Mounting