

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

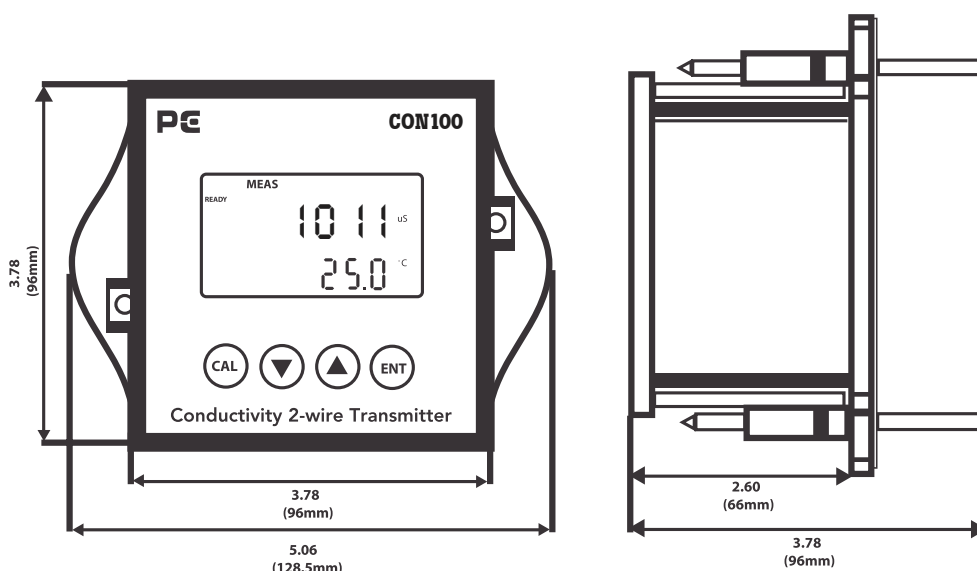
- Six selectable conductivity ranges 4-20mA ISO
- Out-of-range Output Current Indicator indicates an out-of-range measurement by emitting a 3.8mA output current
- Hold Output Current Indicator to indicate 'HOLD' mode during calibration or set up mode
- Scaleable 4-20 mA Current Output
- Primary and secondary 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 $\mu\text{S/cm}$, 0.01 $\mu\text{S/cm}$ resolution
 R2: 0-199.9 $\mu\text{S/cm}$, 0.1 $\mu\text{S/cm}$ resolution
 R3: 0-1999 $\mu\text{S/cm}$, 1 $\mu\text{S/cm}$ resolution
 R4: 0-10.00 mS/cm , 0.01 mS/cm resolution
 R5: 0-19.99 mS/cm , 0.01 mS/cm resolution
 R6: 0-199.9 mS/cm , 0.1 mS/cm , resolution
 Accuracy..... : $\pm 1\%$ of full scale reading in respective range
 Temperature..... : 0 $^{\circ}\text{C}$ to 100 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 212 $^{\circ}\text{F}$)
 Output..... : 4.0-20.0mA (Galvanically isolated)
 Display..... : Dual Display Custom LCD

Cell Constants..... : $k=0.1$, R1-R5
 $k=1.0$, R1-R6
 $k=10.0$, R2-R6
 Temperature Resolution..... : 0.1 $^{\circ}\text{C}$ (0.1 $^{\circ}\text{F}$)
 Relative Temperature Accuracy. : ± 0.5 $^{\circ}\text{C}$ (± 0.9 $^{\circ}\text{F}$)
 Sensor Pt100..... : (3 wire / 2 wire)
 Temperature Compensation..... : Auto/Manual
 Cell Constant User-Selectable.... : (0.10 to 10.00)
 Temperature Coefficient..... : 0 to 10% (selectable)
 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