

PC CON105 Loop-Powered Conductivity / TDS Transmitter



Features & Benefits

Potence Controls PC CON105 Transmitter can be selected to measure Conductivity or Total Dissolved Solids or Resistivity along with the temperature. Measured parameter and Temperature can be displayed together. This isolated output 4 - 20mA Industrial Transmitter, a sturdy microprocessor- based instrument which transmits conductivity or TDS or resistivity 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. All user settings are retained indefinitely without battery backup. The instrument housing is designed for panel or wall mounting.

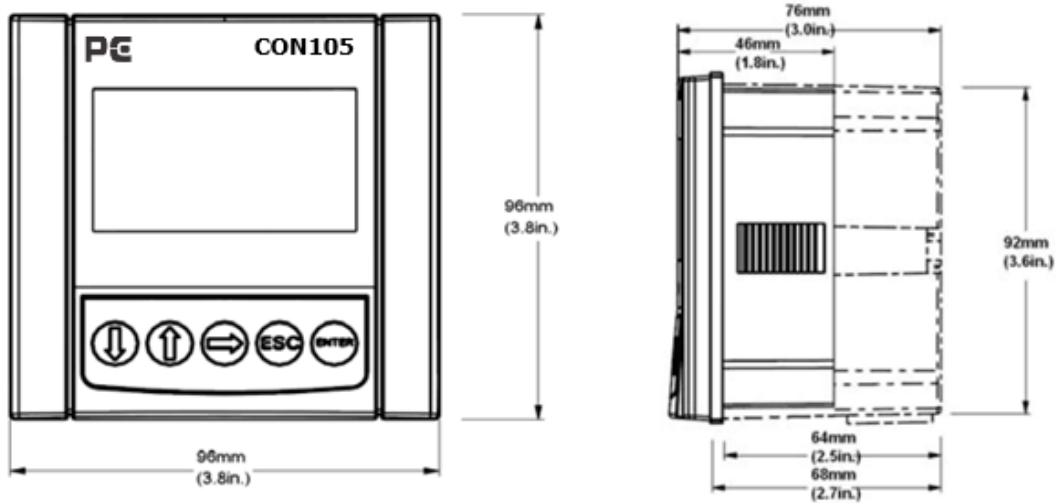
- Large LCD Display
- Primary and Secondary display for simultaneous display of selected Parameter and Temperature
- Isolated 4 - 20 mA Output
- Scalable 4 - 20 mA Output
- Automatic Temperature Compensation
- Non - Volatile

General Specifications

Measurement	: Conductivity or Total Dissolved Solids (TDS) or Resistivity
Measurement Range	(Freely Selectable via Software) : Conductivity : 0 to 2,00,000 $\mu\text{S}/\text{cm}$: TDS : 0.023 to 200,000 ppm
Accuracy*	: Resistivity : 1 $\text{K}\Omega\cdot\text{cm}$ to 18.3 $\text{m}\Omega\cdot\text{cm}$
Repeatability*	: ± 0.5 % of reading
Temp. Compensation	: ± 0.5 % of span
Display	: Automatic; Pt 1000 RTD
Power Requirements	: Dual LCD Display 128*65 dot matrix.
Operating Requirements	: 19 - 48V DC, Regulated, 30 mA max. : Temperature: - 10 to 70 $^{\circ}\text{C}$, (14 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$)
Storage Conditions	0 – 95 % relative Humidity, Non - Condensing : Temperature: - 15 to 80 $^{\circ}\text{C}$, (5 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$)
Analog Output Signal	0 – 95 % relative Humidity, Non-condensing : 4 - 20 mA Isolated Current Output, Max Load 250 Ω @24V; 600 Ω @13V; 1500 Ω @48V
Memory	: Non-Volatile
Enclosure Dimension	: H x W x D (96 x 96 x 46 mm)
Enclosure Rating	: IP65
Enclosure Mounting	: Wall and Panel
Weight	: Approx. 0.4 kg

*These performance specifications are typical at 25 $^{\circ}\text{C}$

Dimensional Drawing



Order Information

Model Number:

PCCON105 : 2 Wire Conductivity / TDS Transmitter / Indicator; 4 - 20 mA Output;
Wall and Panel Mounted

Also Consider Our Conductivity Sensors



In the interest of improving and updating, PCPL reserves the right to alter specifications at any time.