

PC1000 pH/Conductivity Single Channel Controller



Features & Benefits

PC1000 Potence Controls Series Analyzer pH/ORP/Conductivity/TDS measurements incorporate the latest technology to provide highly reliable, flexible, feature-packed device that satisfies a diverse range of applications. monitoring and control Measurements such as pH/Redox (ORP) or Conductivity / Total Dissolved Solids (TDS) are freely selectable via Software thus reducing the need of individual dedicated controllers, the PC1000 can be picked up off shelf and can be used for any of the above measurements.

The large backlit display has been designed to operate in all types of environments and provides information on Main Measured value and Temperature simultaneously. PC1000 not only Measures but provides Retransmission via 2 Nos. of 4 – 20 mA Outputs and RS - 485 Digital communication.

The Panel mounted Analyzer is suitable for use by both OEMS and End Users alike. The simple keypad and logical menu structure make the PC1000 easy to use. All stored parameters and calibration data are retained in the Nonvolatile memory in case of Power failure.

- Multi parameter measurements of pH/ORP/Conductivity/TDS eliminates the need for a variety of dedicated controllers.
- High Visibility Backlit display
- Guided calibration procedures
- 2 nos. 4-20mA Isolated Outputs.
- 2 nos. Relay Outputs
- Modbus RS485 Output
- Non-volatile Memory



Controller Specifications

Measurement : pH/ORP or Conductivity or Total Dissolved Solids (TDS)

(Freely selectable via software)

Display : Graphic LCD with Backlit Display

Display Dimension : 60*30 mm

Power Requirements : $90 - 270 \text{ VAC} \pm 10\%$, 50/60 Hz

Operating Conditions : Temperature: 0 - 65°C, RH - 0 - 95% Non-Condensing

Storage Conditions : Temperature: 0 - 75°C

Analog Output Signal : Two Nos. 4 - 20mA isolated current outputs, max 600Ω

Analog Output Function : Retransmission

Relays : Two Nos. Electrochemical SPDT; 10A; 115/230 VAC

Relays Operational Mode : Control and Alarm

Digital Communication : Modbus RS 485 Output

Memory : Non - Volatile

Calibration Methods : Refer Sensor Data Details

Test / Maintenance : Provides Analog output Test Signals to confirm operation of

connected devices & Test Relay Operation

Enclosure : ABS

Enclosure Dimension : $H \times W \times D$ (96 x 96 x 110mm)

Conduit Entry / Nos. : 1/2" NPT; 6 Nos.

Enclosure Rating : IP54

Mounting : Panel

Weight : Approx. 0.550 kg



PC1000 Controller Specifications when used pH / ORP Sensors

Measuring Range

pH : 0.00 to 14.00 pH ORP : -2000 to 2000mV

Resolution

pH : 0.01 pH ORP : $\pm 1 \text{ mV}$

Accuracy

pH : ±0.2% of full scale

ORP : \pm 10 mV

Temperature Compensation

Automatic or Manual

Temperature Input Range (For pH)

Pt100 / Pt1000 : -15 to 150°C (-5 to 302°F)

Calibration Methods

2-point Buffer (pH Only)1-point Buffer (pH or ORP)

Conductivity Sensors

Measuring Range

Conductivity : μ S/cm : 0.00 - 20.00, 0.0 - 200.0, 0 - 2000

mS/cm: 0.00 - 20.00

TDS : ppm : 0.00 - 10.00, 0.0 - 100.0, 0 - 1000

ppt : 0.00 - 10.00

Resolution

Conductivity/TDS : As per Range Set

Accuracy

Conductivity : \pm 1% of full scale TDS : \pm 1% of full scale

Temperature Compensation

Automatic or Manual

Temperature Input Range

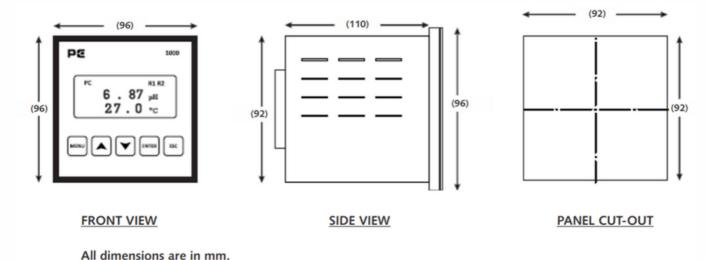
Pt100 / Pt1000 : -20 to 200°C (-4 to 392°F)

Calibration Methods

Zero point and 1point sample

^{*}These performance specifications are typical at 25°C

Dimensional Drawing



Ordering Information

Model Number:

PC1000: Indicator/Controller; 90-270 VAC; 50/60 Hz; 4-20mA; Relays; RS485; Panel Mount

Also Consider Our pH and Conductivity Sensors



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