POTENCE CONTROLS
Your Partners for Analysis...

PC2000 pH/Conductivity Single/Dual Channel Controller

Features & Benefits

Potence Controls PC2000 series Single/Dual Channel Analyzers pH/ORP/Conductivity/TDS measurements incorporate state of the art technology to provide flexible and reliable solutions to the customer for their Process Monitoring and Control needs. Any two of the measurements from pH / Redox (ORP) / Conductivity / Total Dissolved Solids (TDS) can be freely selected for use with the PC2000 Analyzer via software, thus reducing the need of individual dedicated controllers, the PC2000 can be picked up off the shelf and can be used for any 2 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. PC2000 not only measures but provides Retransmission via 2 Nos. of 4–20 mA outputs and RS - 485 digital communication.

The Analyzer is suitable for all types of mounting such as wall; Pipe and Panel. The simple keypad and logical menu structure make the PC2000 easy to use. All stored parameters and calibration data are retained in the Non-volatile memory in case of Power failure. All these and several more features make this Analyzer very useful product for both OEMS and End users alike.

- Single/Dual Channel Analyzer
- Selectable for any 2 of pH / ORP / Conductivity / TDS in any calibration.
- High Visibility Backlit Display
- Guided calibration procedures
- 2 nos. 4-20 mA Isolated Outputs
- 4 nos. Relay Outputs
- Modbus RS 485 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 VAC ± 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 600 Ω
Analog Output Function	:	Retransmission
Relays	:	Four Nos. Electrochemical SPDT; 10 A; 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	:	Thermoset Plastic ; SS
Enclosure Dimension	:	H x W x D (144 x 144 x 132 mm)
Conduit Entry / Nos.	:	1/2" NPT; 6 Nos.
Enclosure Rating	:	IP65
Mounting	:	Wall; Panel; Pipe
Weight	:	Approx. 1.60 kg

PC2000 Controller Specifications when used pH / ORP Sensors

Measuring Range

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

Resolution

pH : 0.01 pH
ORP : ± 1 mV

Accuracy

pH : ±0.2% of Full scale
ORP : ± 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 : µS/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 : ± 1% of Full scale
TDS : ± 1% of Full scale

Temperature Compensation

Automatic or Manual

Temperature Input Range

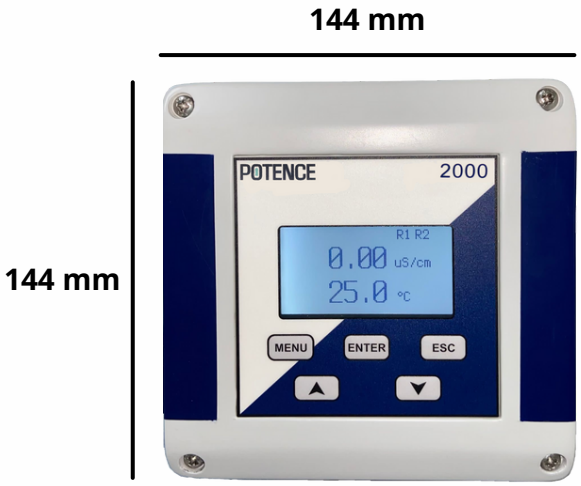
Pt100 / Pt1000 : -20 to 200°C (-4 to 392°F)

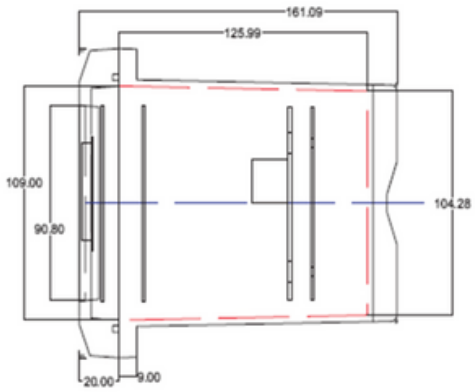
Calibration Methods

Zero point and 1point sample

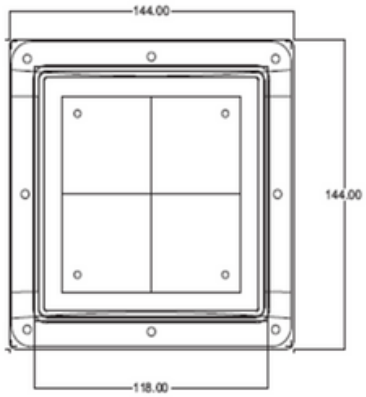
*These performance specifications are typical at 25°C

Dimensional Drawing





SIDE VIEW



PANEL CUT-OUT

Ordering Information

Model Number:

PC2000 : Indicator/Controller; 90 - 270 VAC; 50/60 Hz; 4-20mA; Relays; RS485; Panel Mount

Sensor Input Type:

1: Single Channel

2: Dual Channel

Mode selection: 1. PC2000-1 : Single Channel Input Type Controller

2. PC2000-2 : Dual Channel Input Type Controller

Also Consider Our pH and Conductivity Sensors

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

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