



PEC6000 Controller With USB Feature



PEC800 Controller

## Inductive Conductivity / Salinity Analyzer

High accuracy and reliable analyzer providing better compliance and process control.

## Applications



**Cooling Tower**



**Agriculture**



**Wastewater**



**Process Water**

## In A Glance...

Leadtec PEC6000 & PEC800 controllers offer an unrivaled user friendliness in measurement of Conductivity and Salinity using inductive method. Its minimalistic design offers the most convenient operation than any analyzers.

The operation and calibration can be performed easily with a friendly step-by-step interface.

From agriculture to wastewater applications, our controller is very practicable in many situations thanks to flexibility for different ranges of measurement.

Besides, the controller is well-equipped with analogue output and Field Bus Connection RS-485 communication.

## Benefits

- ❖ Robust & reliable: Highest level of waterproof and dustproof analyzer for site measurement and easy installation.
- ❖ Less is more; Having just the essential features are better than having way too much of superfluous things.
- ❖ Intuitive operation; Step-by-step navigation facilitates the user to configure the analyzer and calibrate the sensor.
- ❖ Clean-cut display; Neat and organized functions allow zero hassle operation.

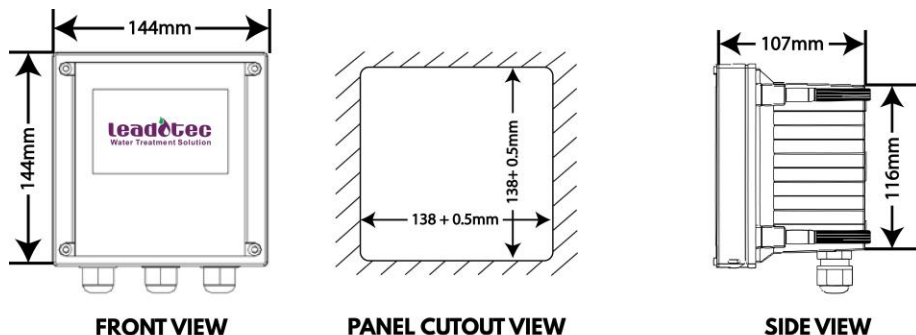
# Specifications

|                                     |                                                    |
|-------------------------------------|----------------------------------------------------|
| <b>Measuring Range</b>              | Conductivity:<br>0.00 – 100.0 mS/cm                |
|                                     | Salinity:<br>5.00 – 60.00 g/kg                     |
| <b>Resolution</b>                   | Conductivity:<br>0.01                              |
|                                     | Salinity:<br>0.01                                  |
| <b>Accuracy</b>                     | Conductivity:<br>±1.5% F.S.                        |
|                                     | Salinity:<br>±1.5% F.S.                            |
| <b>Temperature Probe</b>            | NTC                                                |
| <b>Temperature Range</b>            | 0.0°C to +50.0°C                                   |
| <b>Temperature Resolution</b>       | 0.1°C                                              |
| <b>Temperature Accuracy</b>         | ±0.2°C                                             |
| <b>Ambient Temperature</b>          | 0°C to +70°C                                       |
| <b>Input Impedance</b>              | >10 <sup>12</sup> Ω                                |
| <b>Analogue Output</b>              | 2 x 4-20mA electrically isolated,<br>Max load 500Ω |
|                                     | Current 1<br>Conductivity<br>Salinity              |
|                                     | Current 2<br>Temperature                           |
| <b>Control Outputs</b>              | 2 x Relay Outputs<br>1 x Multifunctional Relay     |
| <b>Max. Relay Contacts Capacity</b> | 5A/250 VAC<br>5A/30 VDC                            |
| <b>Cleaning Setting</b>             | ON : 1 to 1000 seconds                             |
|                                     | OFF : 0.1 to 1000.0 hours                          |

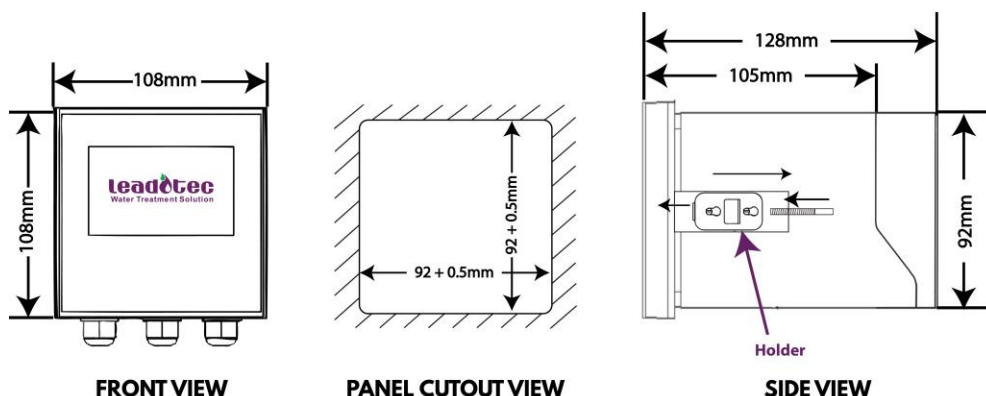
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|------------------------------------|----------------------------------------|
| <b>Multifunctional Relay</b>       | Clean / Period Alarm / Error Alarm     |
| <b>Relay Delay</b>                 | 0 to 120 seconds                       |
| <b>Fieldbus Connection</b>         | RS-485 Modbus                          |
| <b>Baud Rate</b>                   | 9600 / 19200 / 38400                   |
| <b>Protection Class</b>            | IP65                                   |
| <b>Display</b>                     | LCD dot matrix                         |
| <b>Language Selection</b>          | English                                |
|                                    | Others upon request                    |
| <b>Electrical Connection</b>       | 90 to 260 VAC      or                  |
|                                    | 24 VDC                                 |
|                                    | Power consumption <5W                  |
| <b>Data Logging Capacity</b>       | 500,000                                |
| <b>USB Function (PEC6000 only)</b> | Data extraction                        |
|                                    | Software update                        |
| <b>Dimensions</b>                  | PEC6000<br>144(H) x 144(W) x 105(D) mm |
|                                    | PEC800<br>108(H) x 108(W) x 140(D) mm  |
|                                    |                                        |
| <b>Panel Cutout</b>                | PEC6000<br>138 x 138 mm                |
|                                    | PEC800<br>92 x 92 mm                   |
|                                    |                                        |
| <b>Weight</b>                      | PEC6000<br>0.85 kg                     |
|                                    | PEC800<br>0.55 kg                      |
| <b>Installation</b>                |                                        |
|                                    | Panel / Wall / Pipe mount              |

# Dimensions

6000 Series



800 Series



Design outlook subjected to change without prior notice.

Dimensions of PEC6000 and PEC800

# Order Code

| Part No.      | Description                                                                                                                                                                                                                                              |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PEC6000       | Inductive Conductivity / Salinity IP65 Panel / Wall / Pipe mounted base analyzer fitted with 2 x 4-20mA, 2 x relay outputs, 1 x multifunctional relay, RS-485 Modbus, and 1 x USB slot for data extraction and software update. Power supply: 90~260 VAC |
| PEC800        | Inductive Conductivity / Salinity IP65 Panel mounted base analyzer fitted with 2 x 4-20mA, 2 x relay outputs, 1 x multifunctional relay, and RS-485 Modbus. Power supply: 90~260 VAC                                                                     |
| PEC6000-24VDC | Inductive Conductivity / Salinity IP65 Panel / Wall / Pipe mounted base analyzer fitted with 2 x 4-20mA, 2 x relay outputs, 1 x multifunctional relay, RS-485 Modbus, and 1 x USB slot for data extraction and software update. Power supply: 24 VDC     |
| PEC800-24VDC  | Inductive Conductivity / Salinity IP65 Panel mounted base analyzer fitted with 2 x 4-20mA, 2 x relay outputs, 1 x multifunctional relay, and RS-485 Modbus. Power supply: 24 VDC                                                                         |