98COND Conductivity Transmitter

- Large LCD backlight display
- Friendly interface
- Robust enclosure
- Easy to use menus
- Multiple mounting methods
- · 2 analog and 3 relay outputs
- Auto-cleaning function



LECOL 98 series was designed with the user in mind.

Measurement information is easily read on the large liquid crystal display (LCD).

The graphic LCD screen can display multiple parameters simultaneously, including conductivity value, mA output signals, temperature, Ω -cm, and smart function keys.

98 series transmitter's interface is user friendly. The smart function keys can be used to navigate through the three submenus: "calibrate", "output", and "configure".

The "calibrate" submenu is for sensor and output signal calibration.

During calibration, output signals can be paused in "Output".

All measuring parameters can be set through "Configure".

Enclosure

The powder coated alloy housing meets NEMA 4X and IP65 requirements for use in harsh, industrial environments.

The metal housing suppresses noise and prevents the interference caused by electromagnetic environment.

Mounting Methods

Pipe, wall, and panel mounting options are available to provide flexibility in different installation scenarios.



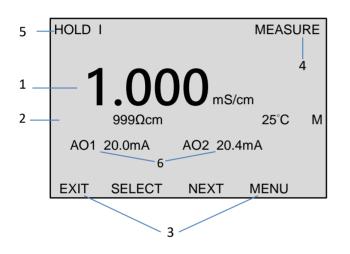
Calibration

Calibration is the process of adjusting the analyzer to standards of use for accurate measurement. This can be conducted by two methods - comparison with a laboratory instrument or calibration of the sensor in a liquid standard.

Slope adjustments are easily made through a one point calibration using commonly available liquid conductivity standards.

The calibrate mode of 98COND transmitter provides the ability to calibrate the sensor input, temperature input, and transmitter outputs. These functions, referred to as calibrate states, include Process Variable calibration, temperature calibration, edit calibration, reset calibration, and output calibration.

Main screen displays



- **1. Main display** Display of primary measurement
- **2. Minor display** Additional measurements
- Function keys Select submenus:CalibrateOutputConfigure
- 4. Current mode Mode in use
- 5. Hold Output Manual hold output at a specific
- **6. Analog Output** Analog output 1 & Analog output 2

Selection Keys

There are four selection keys under the screen – EXIT, SELECT, NEXT, MENU. Use the selection keys to:

1. EXIT: To quit, cancel the function

2. SELECT: To select measurement function

3. NEXT: To continue the setting process

4. MENU: To select different measurement

modes: calibration mode, output mode, and configuration mode













Specifications

Type

Four-Wire conductivity transmitter

Display

240*128 dots graphic LCD display

Supply voltage

100~240 VAC, 50/60 Hz

Power consumption

Less than 15 W

Input range

0.01 cell: $0 \sim 200 \mu \text{S/cm}$

0.1 cell: $0 \sim 2000 \mu \text{S/cm}$

1.0 cell: $0 \sim 20000 \,\mu\text{S/cm}$

Resolution

0.01 cell: 0.001 µS/cm

0.1 cell: 0.01 µS/cm

1.0 cell: 0.1 μ S/cm

Accuracy

+/- 2% of F.S.

+/- 1 °C

Temperature compensation

Manual, Automatic

Temperature sensor types

 $3k\Omega$ Balco / PT100 / PT1000

Analog outputs

Two isolated 4~20mA current outputs

(user programmable)

Configurable range

 $0 \sim 200 \, \mu \text{S/cm}$

 $0 \sim 2000 \mu S/cm$

 $0 \sim 20000 \, \mu \text{S/cm}$

Temperature: 0 ~ 100 °C

Minimum span

Conductivity: 1, 10, 100 µS/cm

Temperature: 10 °C

Relay outputs

3 relay contacts SPDT, N.O. and N.C.

(user programmable)

Maximum contact ratings

100 VAC, 250 VAC, 3A

Set points range

0.000 ~ 20000 µS/cm, 0 ~100 °C

Dead band

99.99 counts, 10 °C

Time delay range

0.0~99.9 minutes

Cleaner setting (Relay 3 only)

Cycle time range : 0.00 ~ 99.99 hours

On time range : 0.00 ~ 99.99 minutes

Recovery time range : 0.00 ~ 99.99 minutes

Lower display

Temperature, resistivity, current output

Environmental

Operating temperature : -10 ~ 50 °C

Storage temperature : -20 ~ 70 °C

Operating humidity : 95% RH

Storage humidity : 95% RH

Enclosure

NEMA 4X and IP65

Aluminum alloy with polyester powder coating

Mounting

Panel, wall, pipe, and pipe mounting with

weather shield

Dimensions

Size : 144*144*177mm (H*W*D)

Panel cut: 135*135(±0.2) mm

Weight

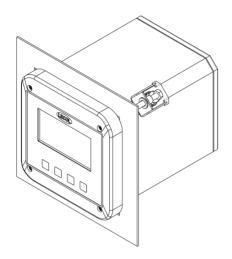
2.2 kg

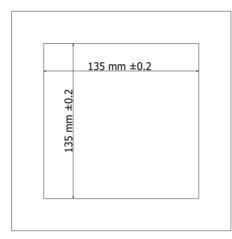
3 kg with pipe mounting kits

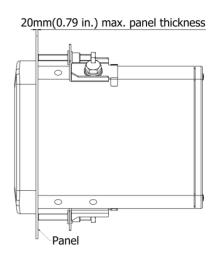


Mounting types

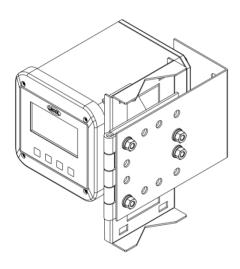
Panel mounting

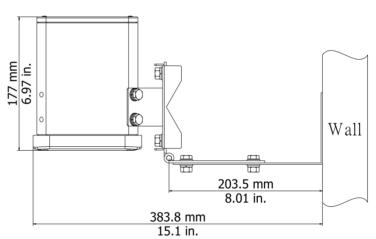




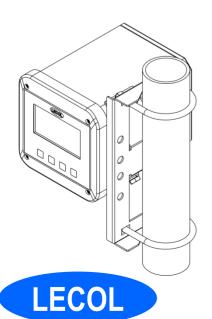


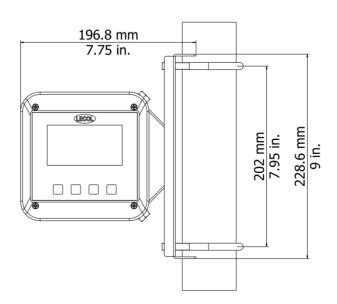
Wall mounting



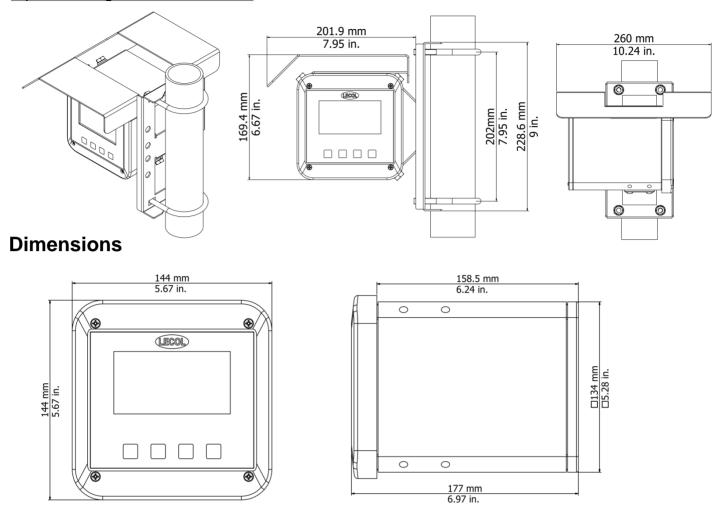


Pipe mounting

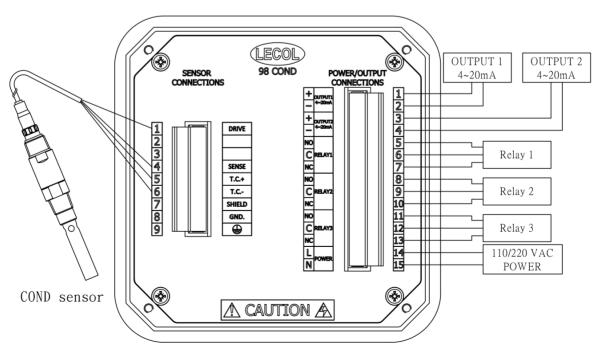




Pipe mounting with weather shield

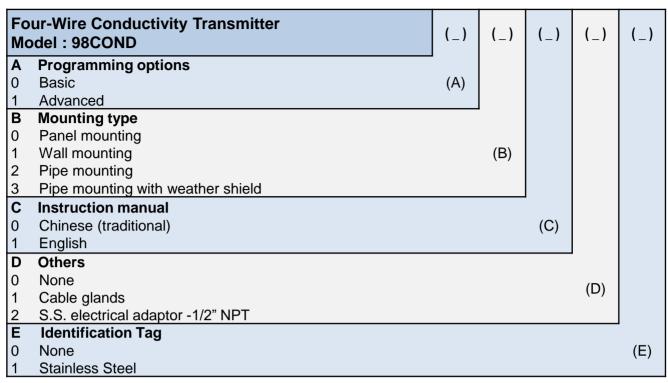


Electrical & sensor wiring





Ordering information



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