96COND Conductivity Transmitter

- **Large LCD display**
- **Friendly interface**
- **Robust enclosure**
- **Easy to use menus**
- **Multiple mounting methods**
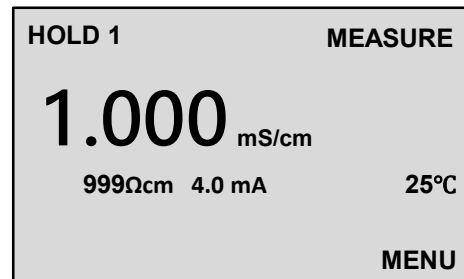- **Two-Wire loop power**

LECOL 96 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 signal, temperature, Ω-cm, and smart function keys.

96 series transmitter's keypad interface is user friendly. The smart function keys can be used to navigate to 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".

HOLD 1		MEASURE
1.000 mS/cm		
999Ωcm 4.0 mA		**25℃**
		MENU

		CONFIGURE
5. 666 mS/cm		
		OUTPUT
EXIT	**SELECT**	**NEXT**

		CONFIGURE
5. 666 mS/cm		
		ANALYZER
EXIT	**SELECT**	**NEXT**

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Enclosure

The powder coated alloy housing meets NEMA 4X and IP54 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 for accurate measurement. It 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 calibration mode of 96COND transmitter provides the ability to calibrate the sensor input, temperature input, and transmitter output. These functions, referred to as calibrate states, include Process Variable calibration, temperature calibration, edit calibration, reset calibration, and output calibration.

Main screen displays
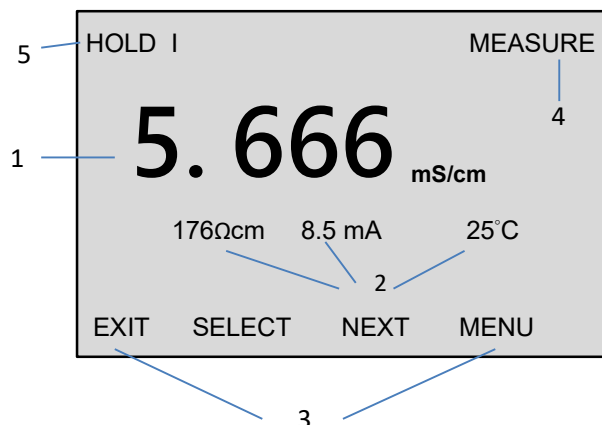
1. **Main display** – Display of primary measurement

2. **Minor display** – Additional measurements

3. **Function keys** – Select submenus:
   Calibrate
   Output
   Configure

4. **Current mode** – Mode in use

5. **Hold Output** – Manual hold output at a specific value.

96COND TWO-WIRE COND TRANSMITTER

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
    Two-Wire conductivity transmitter

Display
    240*128 dots graphic LCD display

Supply voltage
    12~24 VDC, loop power

Power consumption
    0.6W Maximum

Input range
0.01 cell :	0~ 200	µS/cm
0.1 cell :	0~ 2000	µS/cm
1.0 cell :	0~ 20000	µS/cm

Display resolution
0.01 cell :	0.001	µS/cm
0.1 cell :	0.01	µS/cm
1.0 cell :	0.1	µS/cm

Accuracy
    +/- 2% of F.S.
    +/- 1 ˚C

Temperature compensation
    Manual, Automatic

Temperature sensor types
    3kΩ Balco / PT100 / PT1000

Analog output
    Isolated 4~20mA current output

Configurable conductivity range
    0 ~ 200   µS/cm, 0 ~ 2000 µS/cm,
    0 ~ 20000 µS/cm

Minimum span
0.01 cell :	1	µS/cm
0.1 cell :	10	µS/cm
1.0 cell :	100	µS/cm

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 IP54
    Aluminum alloy with polyester powder coating

Mounting
    Panel, wall, pipe, and pipe mounting with weather shield

Certification
    Low Voltage Directive 2014/35/EU
    EN 61010-1:2010
    Electromagnetic Compatibility Directive 2014/30/EU EN 61326-1:2013 CE marked
    TS Mark with identification No. TD13003W

Dimensions
    Size   : 144*144*177mm (H*W*D)
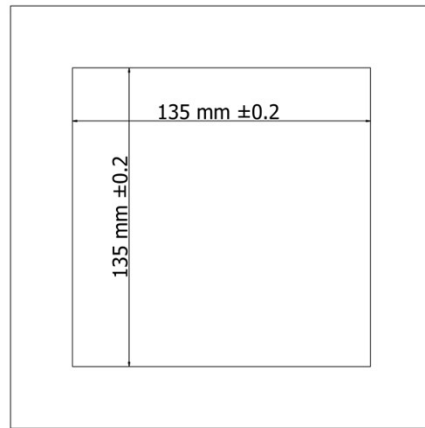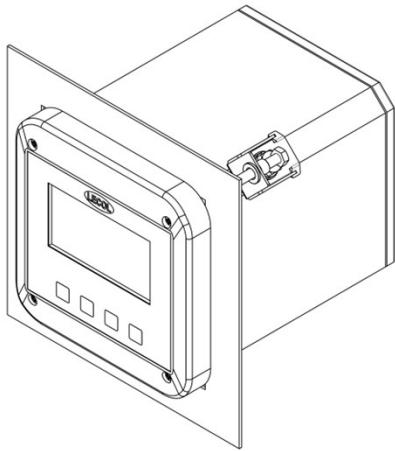   Panel cut : 135*135(±0.2) mm
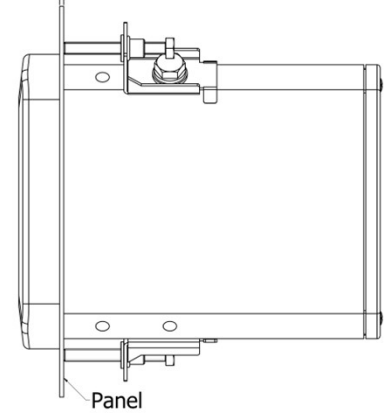
Weight
    2.2 kg
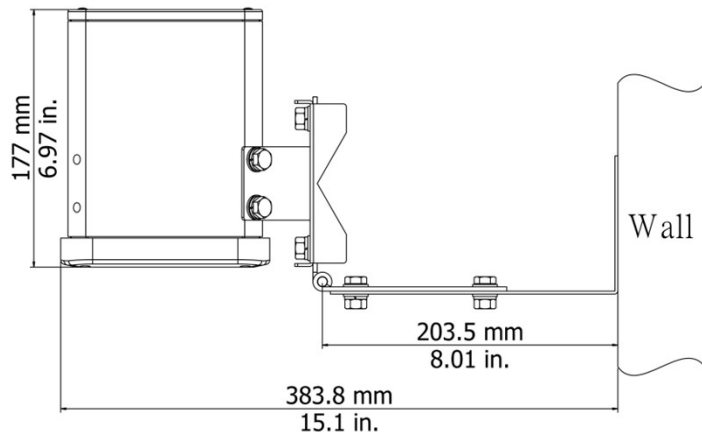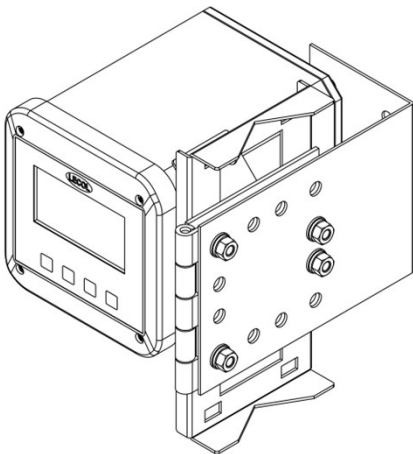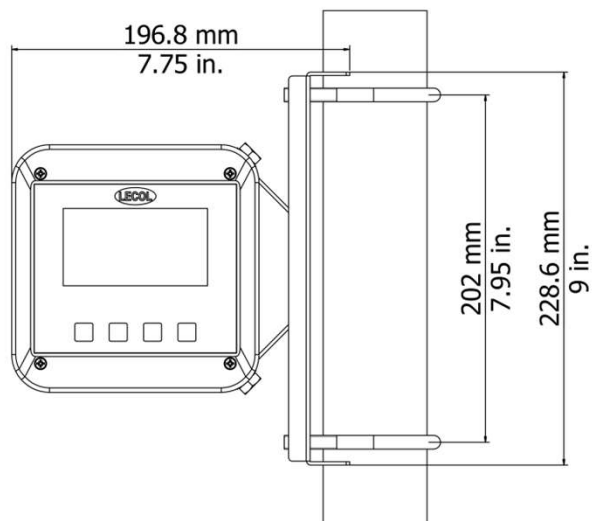   3 kg with pipe mounting kits

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Mounting types

Panel mounting

135 mm ±0.2

135 mm ±0.2

20mm(0.79 in.) max. panel thickness

Panel

Wall mounting

177 mm
6.97 in.

203.5 mm
8.01 in.

383.8 mm
15.1 in.

Wall

Pipe mounting

196.8 mm
7.75 in.

202 mm
7.95 in.

228.6 mm
9 in.

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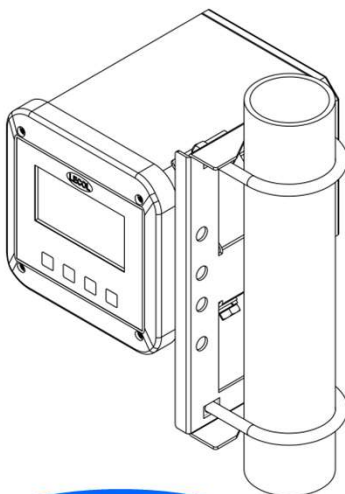
Pipe mounting with weather shield
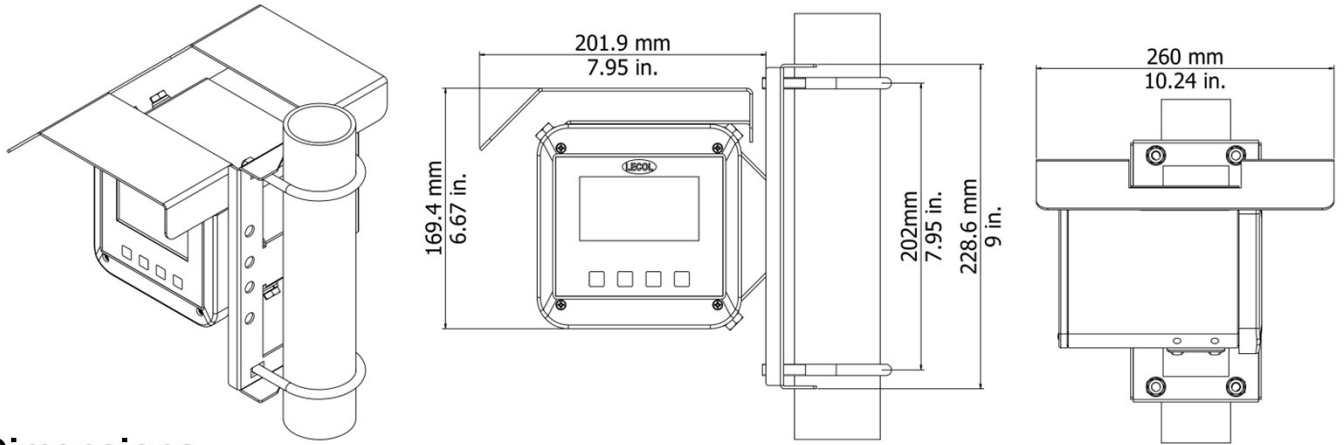
Dimensions
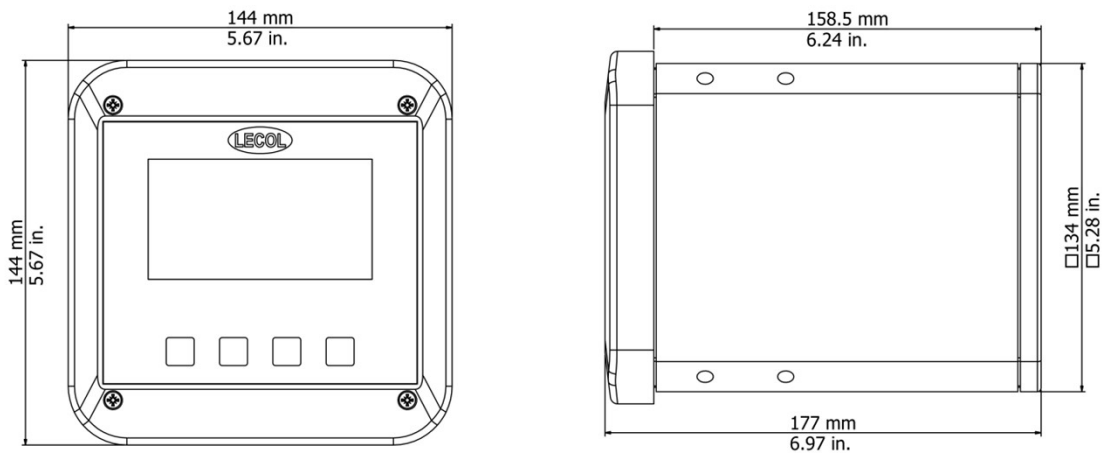
Electrical & sensor wiring

COND sensor

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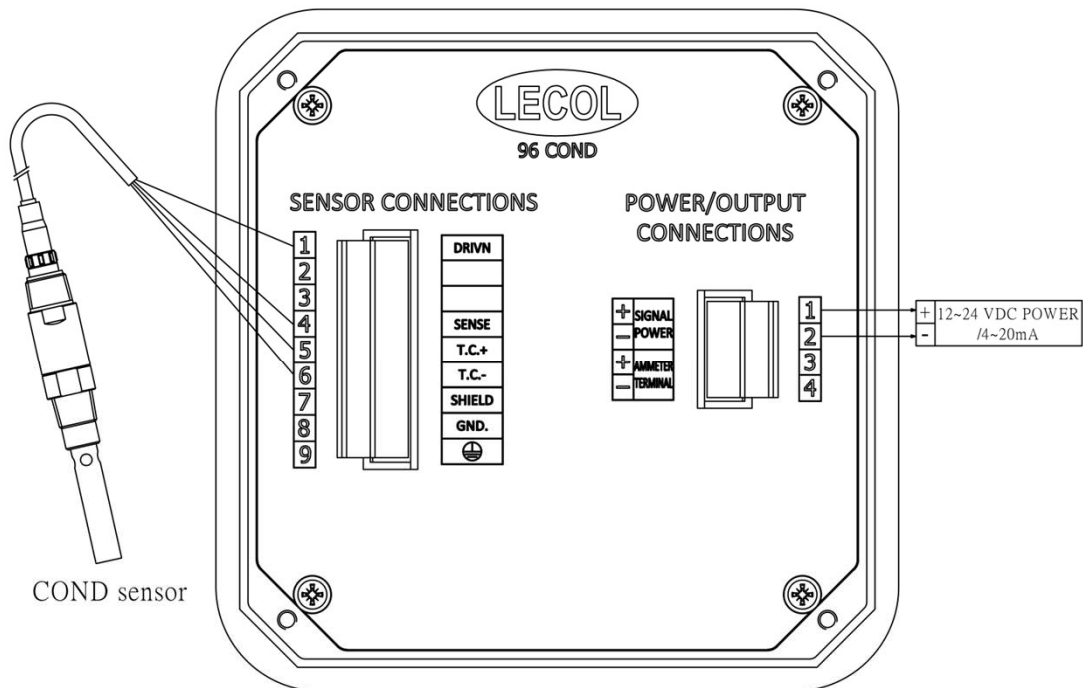
Ordering information

Two-Wire Conductivity Transmitter Model : 96 COND		(_)	(_)	(_)	(_)	(_)
A	**Programming options**					
0	Basic	(A)				
1	Advanced					
B	**Mounting type**					
0	Panel mounting					
1	Wall mounting		(B)			
2	Pipe mounting					
3	Pipe mounting with weather shield					
C	**Instruction manual**					
0	Chinese (traditional)			(C)		
1	English					
D	**Others**					
0	None					
1	Cable glands				(D)	
2	S.S. electrical adaptor -1/2" NPT					
E	**Identification Tag**					
0	None					(E)
1	Stainless Steel					

*LECOL reserve the right to make technical changes or modify the contents of this document without prior notice.

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rev.2411