



**DC DYNAMIC<sup>TM</sup>**  
Process Equipment

Conductivity Transmitter  
**SmartSense CO-3001**

## Core Features of SmartSense Transmitters

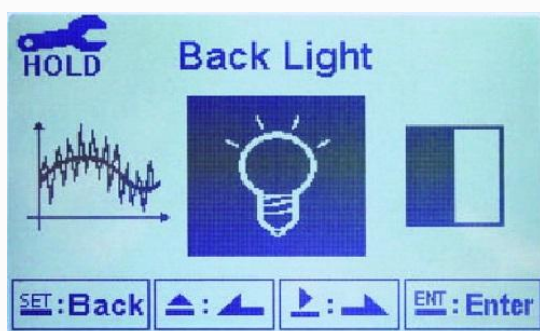
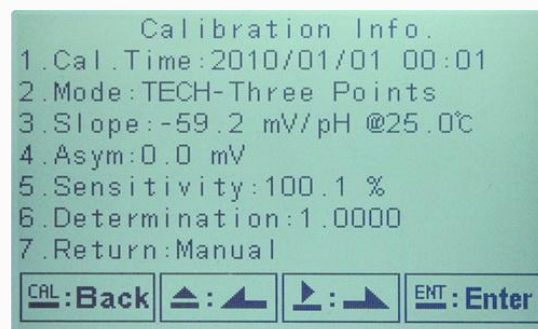


### Waterproof protection

Provides the instrument safety with IP65 waterproof protection and front flap cover design for easy installation and wiring.

### Dot-Matrix LCD

For convenience and better process safety, it reveals the last calibration records and a system setting overview

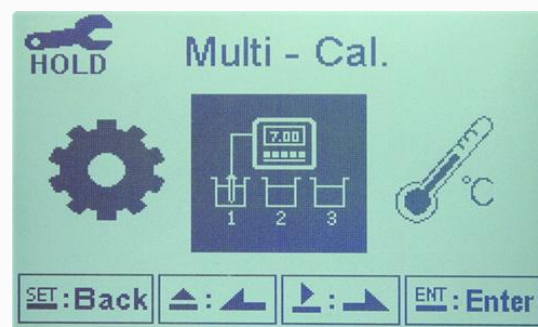


### Auto-Sense Backlight Display

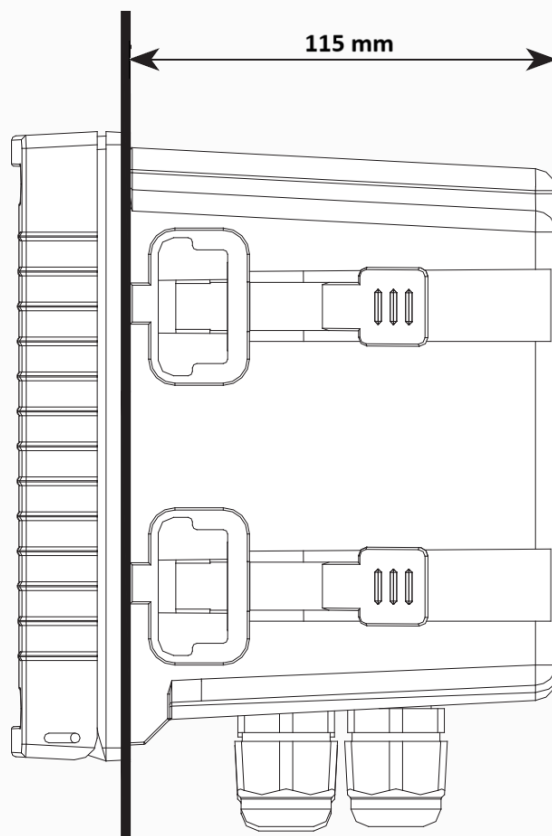
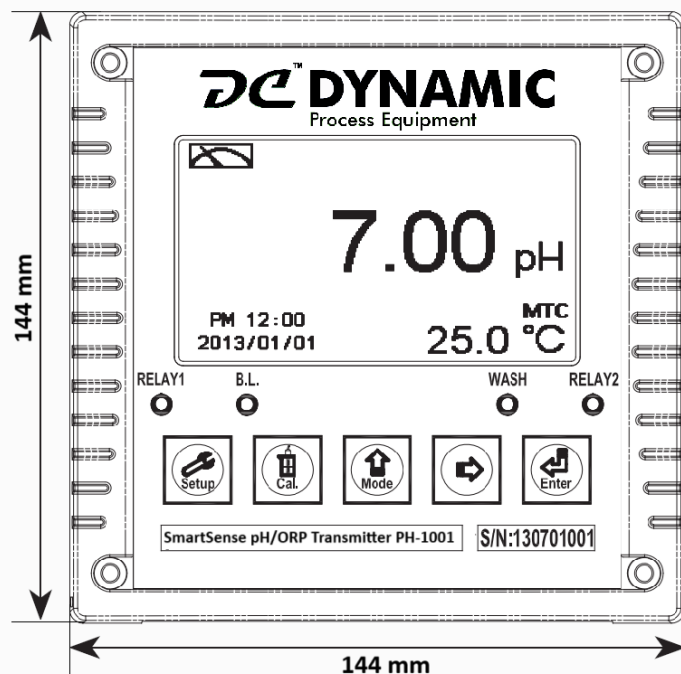
For clear reading and energy saving, it turns on the backlight automatically when the environment becomes dark.

### Graphical Menu

Allows extremely intuitive & quick setting and calibration.



Transmitter Dimension DIN ½, 144 x 144:





## SmartSense Conductivity Transmitter **CO-3001**



The CO-3001 series conductivity transmitter has rugged IP 65 enclosure and outstanding EMC protection ability. Wide measurement ranges up to 2000mS/cm, high resolution up to 0.001 $\mu$ S/cm, and equipped with salinity and TDS modes, all these functionalities enable its versatile ability in more application fields with the consistent reliability.

### **Applications**

- Ultra-pure water
- Cooling Water
- Industrial Process
- Water & Wastewater Treatment
- Desalination

### **Features**

- Waterproof and dustproof design
- Free range and Fixed selections for sensor cell constant
- Salinity and Resistivity modes available.
- User-friendly operation with text and graphic illustration, clear signs and easy to understand
- With password and multi-key design-security protection enhancement
- Hi/Lo, Hi/Hi, Lo/Lo selectable two limited contact outputs with programmable set-points and hysteresis
- In built temperature compensation
- Automatic sensor clean function with programmable time interval
- LED indicated alarm or washing status signal
- IP 65 (NEMA 4X)

## Specification:

Conductivity Transmitter SmartSense CO-3001		
Model		CO-3001
Measurement Range	Conductivity	0.000 $\mu$ S/cm to 2000 mS/cm in 7 ranges Auto or Fixed range, $\pm 1\%$ ( $\pm 1$ Digit)
	Resistivity	0.00 to 20.00M $\Omega$ .cm, $\pm 1\%$ ( $\pm 1$ Digit)
	Salinity	0.0 to 70.0 ppt, $\pm 1\%$ ( $\pm 1$ Digit)
	TDS	0 to 19999 ppm ; 0.00 to 199.99 ppt
	Temperature	Pt-1000/Pt-100: -30.0 to 200.0°C, NTC-30K: -30.0 to 130.0°C $\pm 0.2^\circ\text{C}$ ( $\pm 1$ Digit)
Temperature	Compensation	Automatic with Pt-1000/Pt-100 or NTC 30K Or Manual Input
	Coefficient	Linear compensation from 0.00~20.00% Non-Linear Compensation for natural water
Cell Constant		Fixed or Freely Selectable
Display		Large LCD with auto-sense backlight and contrast adjustment
Analog Output	Conductivity	Isolated DC 0/4 to 20 mA corresponding to measurement, max load 500 $\Omega$
	Temperature	Isolated DC 0/4 to 20 mA
Calibration		One Point OR Two Point calibration
Output Relay	Rating	240 VAC, 0.5A max. (recommended)
	Set Point	Hi/Lo, Hi/Hi, Lo/Lo selectable two limited programmable, ON/OFF
Wash Relay	Rating	240 VAC, 0.5A max. (recommended)
	Time	On: 0-99min. 59sec, Off: 0-999hr 59min.
Ambient Temperature		0 to 50°C
Storage Temperature		-20 to 70°C
Power Supply	AC Version	100V to 240V AC $\pm 10\%$ , 50/60Hz, 8W Max.
	DC Version	12V to 36V DC, 8W Max.
Installation		Wall mounting, Pipe mounting, Panel mounting
Dimensions	Enclosure	H: 144 mm W: 144mm D:115 mm (1/2 DIN)
	Panel Cut out	138 mm x 138 mm
Weight		~ 800 Grams
Protection		IP 65 (NEMA 4X)

Also check out our range of **Retractable Housings** for Liquid Analytics...



#### SmartDip 405M

SmartDip 405M is a retractable electrode housing with pneumatically operated drive Unit. This metal body model can be implemented in harsh chemical applications through flan...



#### SmartDip 220M

SmartDip 220M is a compact retractable electrode housing with manual drive Unit. This metal body model can be implemented in different chemical applications including ferment...



#### SmartDip 405P

SmartDip 405P is a retractable electrode housing with pneumatically operated drive Unit. This plastic body model can be implemented in harsh chemical applications through flan...



#### SmartDip 250M

SmartDip 250M is a manually operated Retractable electrode housing with long Immersion lengths and ball valve for isolation. It can fit 120mm long Sensor.



#### SmartDip 420M

SmartDip 420M is a compact retractable electrode housing with pneumatically operated drive Unit. This metal body model can be implemented in different chemical applicatio...



#### SmartDip 240M

SmartDip 240M is a compact retractable electrode housing. This version can fit 120mm long sensor. It comes with 1" NPT, Triclover connection.



#### SmartDip 450M

SmartDip 450M is a pneumatically operated retractable electrode housing with long immersion length and isolation ball valve. This unique model can fit 120mm long sensor.