



DC DYNAMICTM
Process Equipment

Conductivity Transmitter
SmartSense CO-3002

Core Features of SmartSense Transmitters

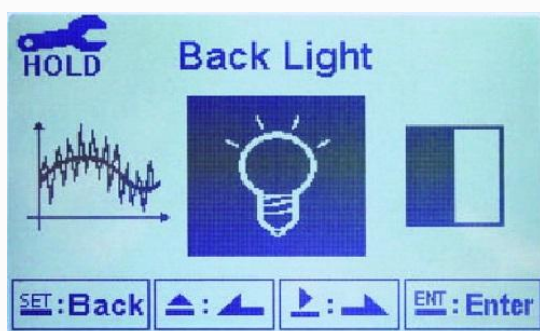
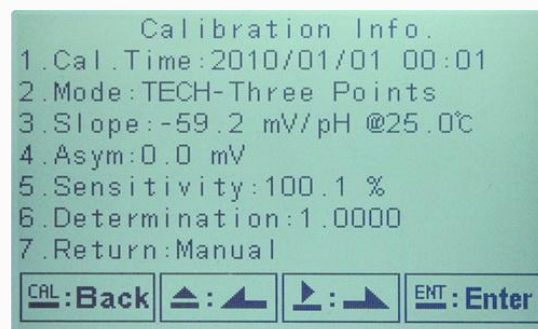


Waterproof protection

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

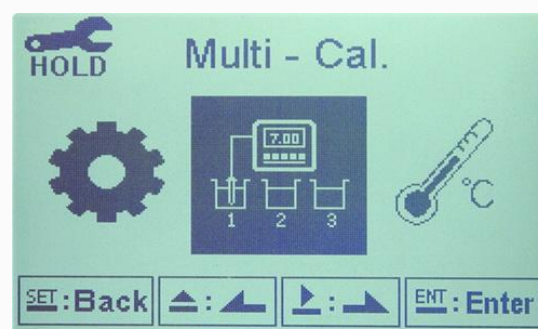


Auto-Sense Backlight Display

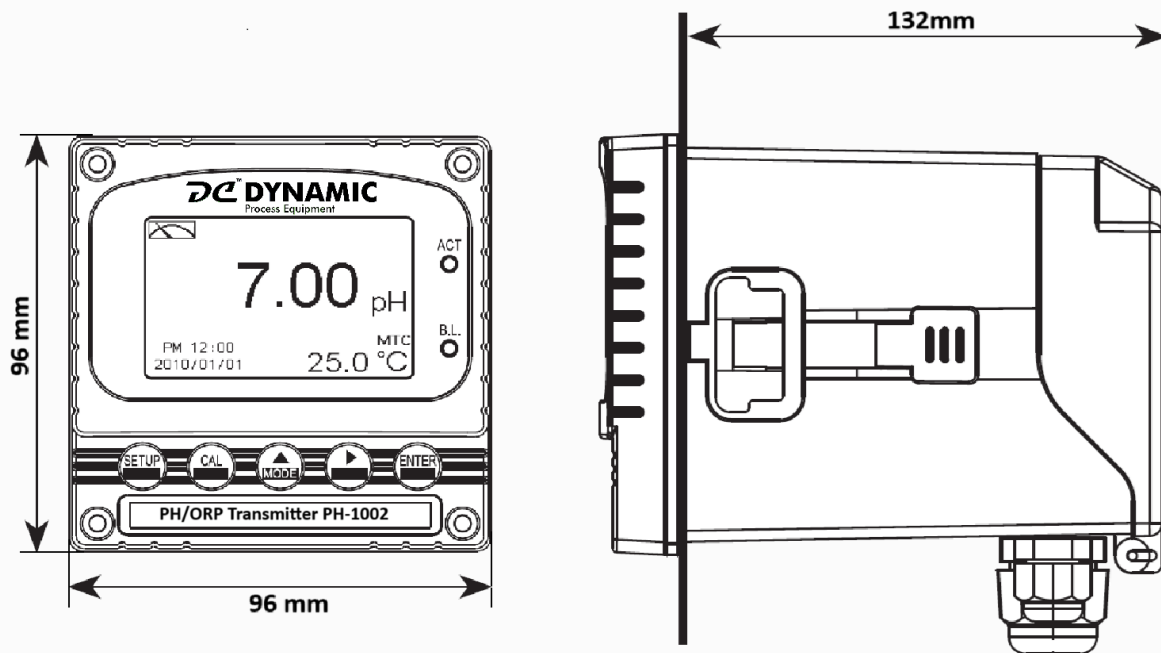
For clear reading and energy saving, it turns on the backlight automatically when the environment becomes dark.

Graphical Menu

Allows extremely intuitive & quick setting and calibration.



Transmitter Dimension DIN ¼, 96 x 96:



Flameproof Transmitter Specification:

Transmitter Type: DIN1/4 (96 x 96mm)

Flameproof protection:

EX-d AS PER IS/IEC 60079-1:2014 SUITABLE FOR INSTALLATION IN HAZARDOUS LOCATION OF GAS GROUP IIA & IIB, ZONE 1 & 2.

Ingress protection:

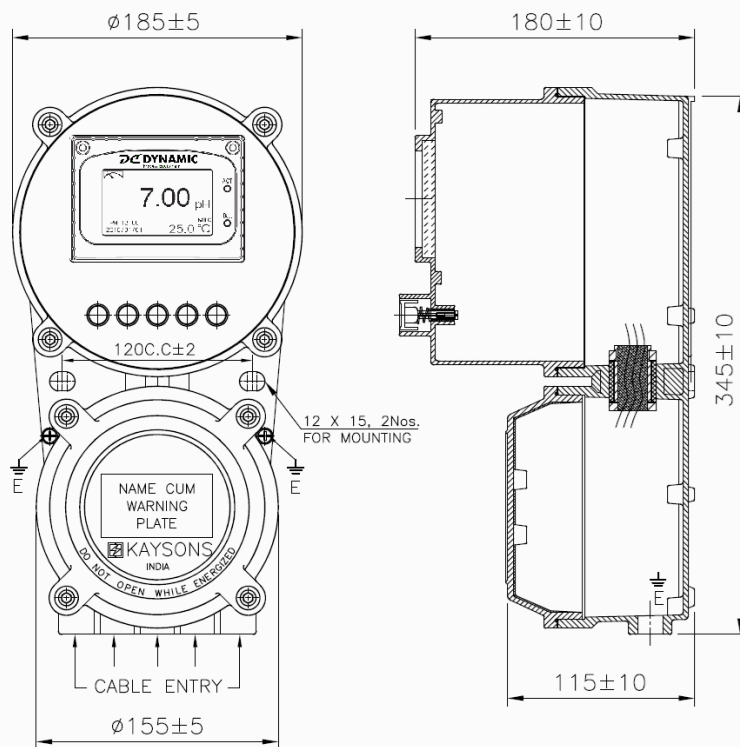
IP-66 AS PER IS/IEC 60529:2001 (REAFFIRMED 2014)

DUST IGNITION PROTECTION:

(Ex 'db' IIB Gb) (Ex tb IIIC Db) AS PER IS/IEC 60079-31:2013

Temperature class: T6

Material of construction: DIE CAST AL. ALLOY LM-6.



SmartSense Conductivity Transmitter **CO-3002**



Intelligent SmartSense Conductivity with robust protection, the CO-3002 series Conductivity transmitters have rugged IP 65 DIN1/4 96 x 96mm enclosure. The graphical menu driven operation with setting and calibration information in full text pages provide the extremely ease of use in all functions

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
- Compatible with 2 Electrode and 4 Electrode type conductivity sensors
- Salinity and Resistivity modes available.
- User-friendly operation with text and graphic illustration, clear signs and easy to understand
- Chart mode, Trace Mode for graphical data interpretation
- RS-485 MODBUS RTU Digital Output
- 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-3002		
Model		CO-3002
Measurement Range	Conductivity	0.000μS/cm to 200 mS/cm in 5 ranges Auto or Fixed range, ±1% (±1 Digit)
	Resistivity	0.00 to 20.00MΩ.cm, ±1% (±1 Digit)
	Temperature	Pt-1000/NTC30K: -30.0 to 130.0°C ±0.2°C (±1 Digit)
Temperature	Compensation	Automatic with Pt-1000 or NTC 30K Or Manual Input
	Coefficient	Linear compensation from 0.00~40.00% Non-Linear Compensation for natural water
Cell Constant		0.01, 0.05, 0.1, 0.5, 10.0 cm ⁻¹ 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 500Ω
	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 ± 10%, 50/60Hz, 8W Max.
	DC Version	12V to 36V DC, 8W Max.
Installation		Wall mounting, Pipe mounting, Panel mounting
Dimensions	Enclosure	H: 96 mm W: 96mm D:132 mm (1/4 DIN)
	Panel Cut out	93 mm x 93 mm
Weight		~ 500 Grams
Protection		IP 65 (NEMA 4X), Flameproof (Optional)

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.