



DE DYNAMICTM
Process Equipment

Conductivity Transmitter
SmartSense CO-3002

Core Features of SmartSense Transmitters

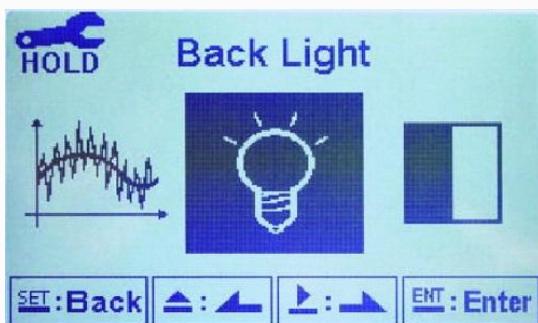
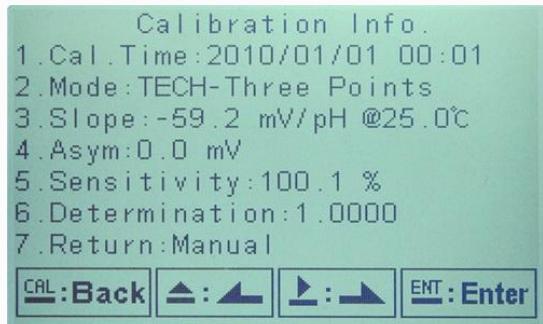


Waterproof protection

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

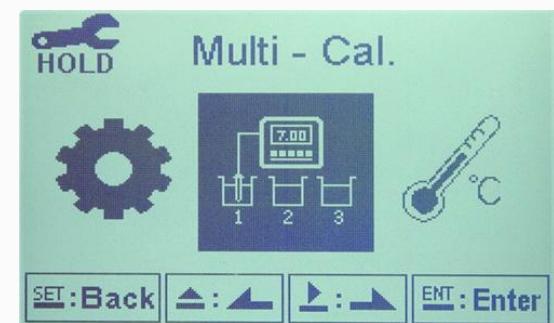
Dot-Matrix LCD

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



Auto-Sense Backlight Display

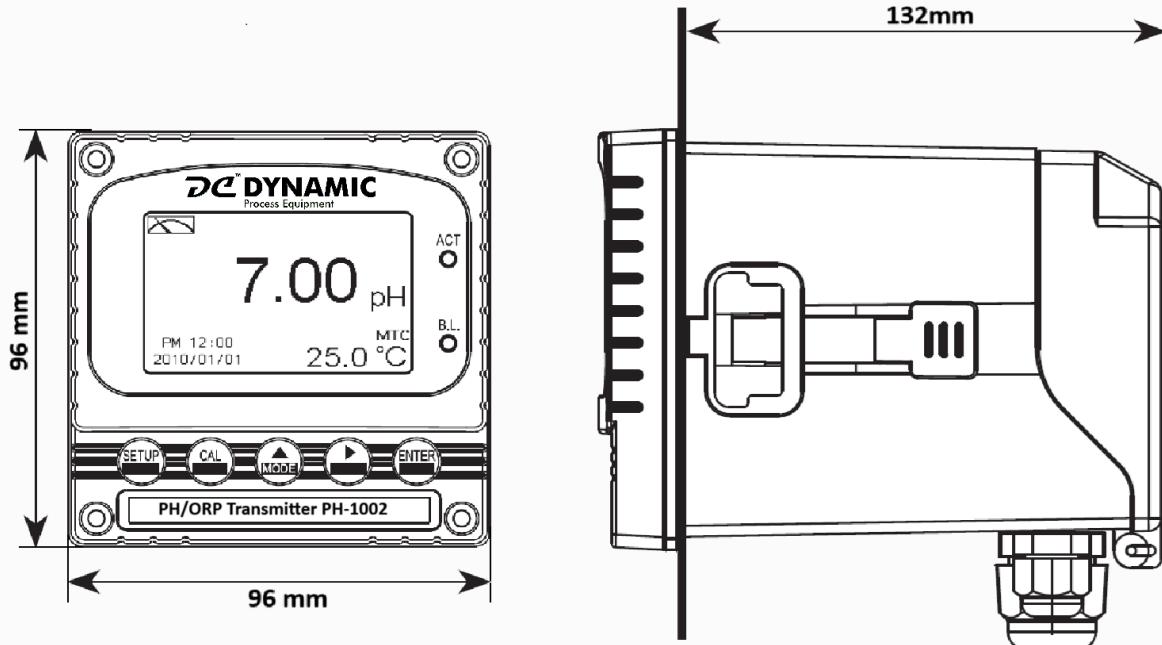
For clear reading and energy saving, it turns on the backlight automatically when the environment becomes dark.



Graphical Menu

Allows extremely intuitive & quick setting and calibration.

Transmitter Dimension DIN 1/4, 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:

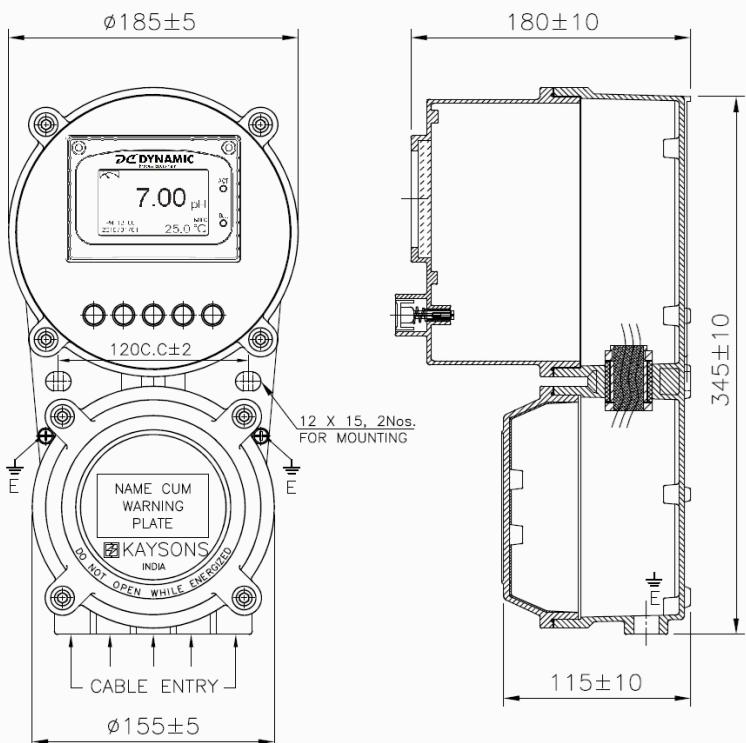
IP-66 AS PER IS/IEC 60529:2001 (REAFFIRMED
2014)

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 | |
| Measurement Range | CO-3002 |
| Conductivity | 0.000 μ S/cm to 200 mS/cm in 5 ranges Auto or Fixed range, $\pm 1\%$ (± 1 Digit) |
| Resistivity | 0.00 to 20.00M Ω .cm, $\pm 1\%$ (± 1 Digit) |
| Temperature | Pt-1000/NTC30K: -30.0 to 130.0 $^{\circ}$ C ± 0.2 $^{\circ}$ 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 500 Ω |
| | 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 $^{\circ}$ C |
| Storage Temperature | -20 to 70 $^{\circ}$ 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: 96 mm W: 96mm D:132 mm (1/4 DIN) |
| | Panel Cut out 93 mm x 93 mm |
| Weight | \sim 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.

