



DC DYNAMICTM
Process Equipment

pH/ORP Transmitter
SmartSense PH-1002-AD

Core Features of SmartSense Transmitters

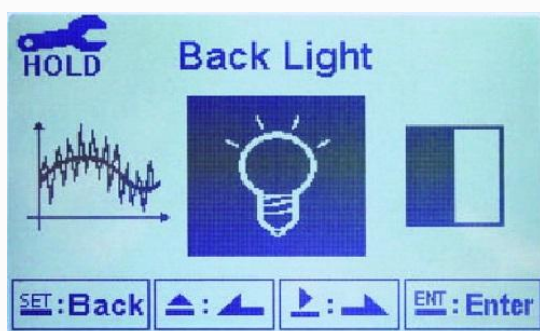
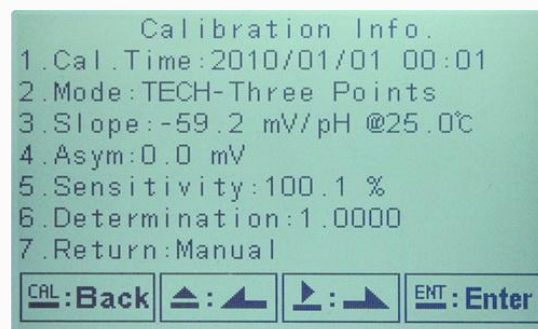


Waterproof protection

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

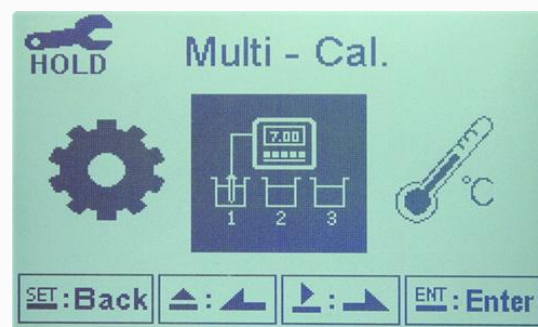


Auto-Sense Backlight Display

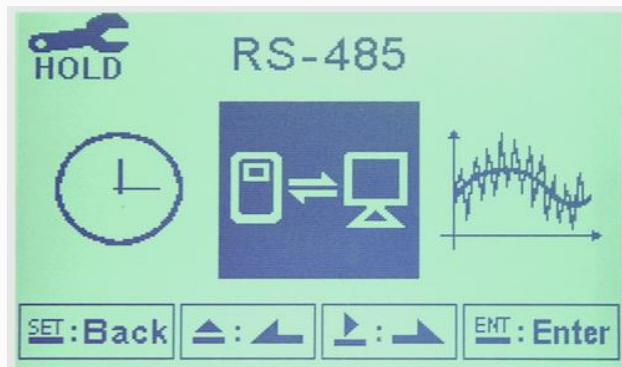
For clear reading and energy saving, it turns on the backlight automatically when the environment becomes dark.

Graphical Menu

Allows extremely intuitive & quick setting and calibration.



Special Features of Advanced Version Transmitters

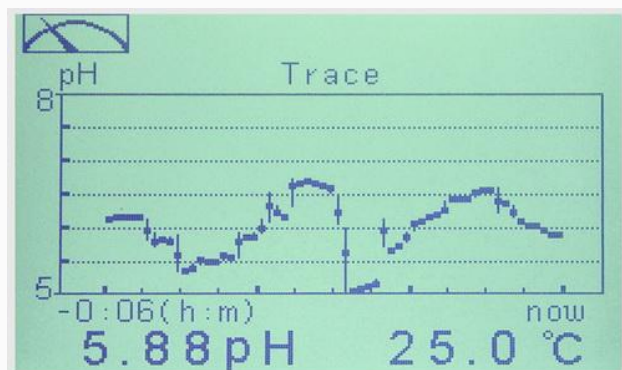


RS-485 MODBUS protocol

Provides long-distance, multiple values and configuration info transmission and anti-electrical signal protection

Real-time chart mode

3 minutes real-time dynamic graph to help you realize recent development in control



Trace mode

Set up from 3 mins to four weeks duration of the measured value trend graph to help you master the process history

Events logbook

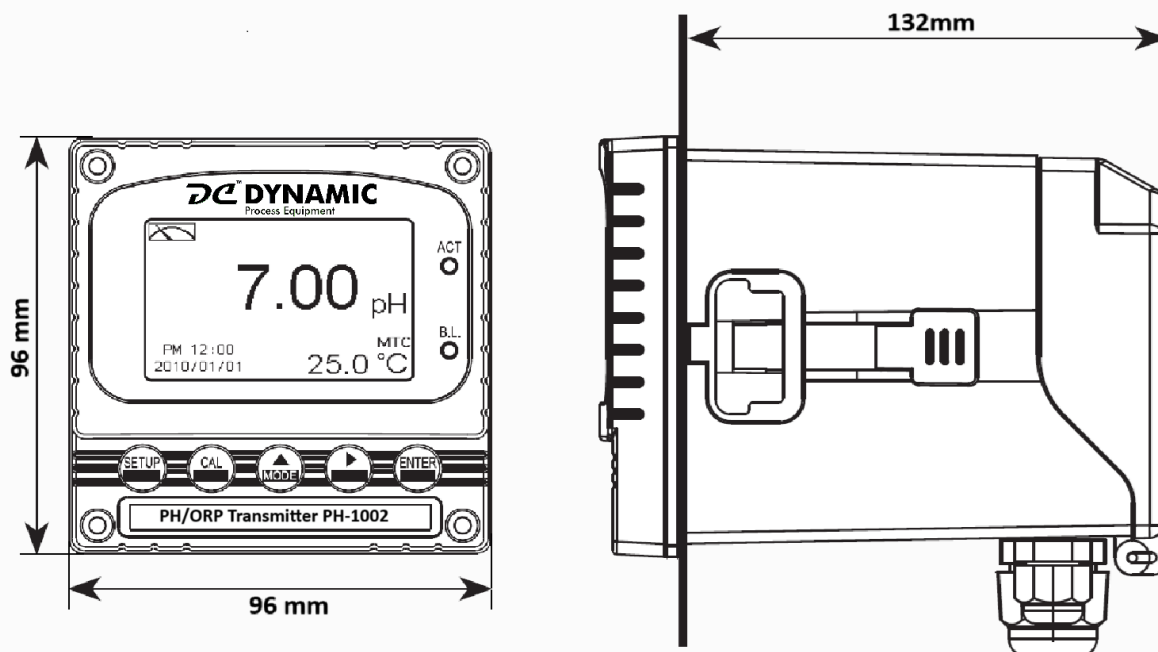
Actions, current output out of range, power outages and error records, no need for standby and record them anymore

Page 1

11/06/29	15:33:56	Set mode
11/06/29	15:33:49	Mea mode
11/06/29	15:33:47	Set mode
11/06/29	15:31:22	Mea mode
11/06/29	15:30:58	Set mode
11/06/29	15:30:26	Mea mode
11/06/29	15:29:59	Set mode

SET:Back ↑: ↓:

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:

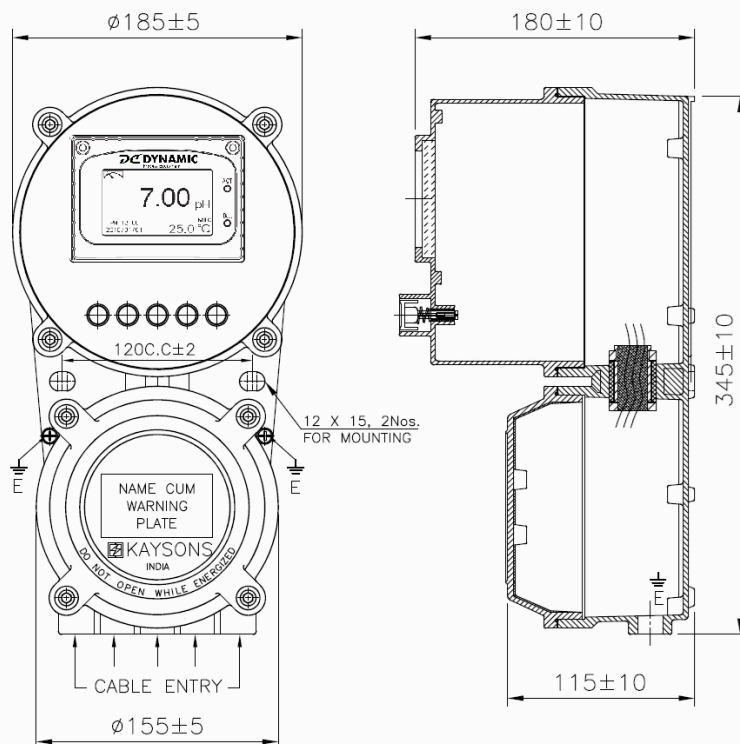
IP-66 AS PER IS/IEC 60529:2001 (REAFFIRMED 2014)

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 pH/ORP Transmitter

PH-1002-AD



Intelligent SmartSense pH/ORP Transmitter with robust protection, the PH-1002 series pH/ORP transmitters have rugged IP65 DIN1/4 96 x 96mm enclosure and outstanding EMC protection ability. The graphical menu driven operation with setting and calibration information in full text pages provide the extremely ease of use in all functions.

Applications

- Industrial Process
- Scrubber
- Chemical Process
- Water & Wastewater Treatment
- Biochemistry

Features

- Waterproof and dustproof design
- Solution-ground design eliminating interference of ground potential
- User-friendly operation with text and graphic illustration, clear signs and easy to understand
- 5-point calibration and the last calibration data displayable
- TECH, NIST Standard Buffers auto detection
- 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
- Gradually continuous sample measurements average function to enhance stability
- Automatic sensor clean function with programmable time interval
- LED indicated alarm or washing status signal
- IP 65 (NEMA 4X)

Specification:

pH/ORP Transmitter SmartSense PH-1002-AD		
Model		PH-1002-AD
Measurement Range	pH	-2.00 to 16.00 pH, ± 0.01 (± 1 Digit)
	ORP	-1999 to 1999 mV, $\pm 0.1\%$ (± 1 Digit)
	Temperature	-30.0 to 130.0°C, $\pm 0.2^\circ\text{C}$ (± 1 Digit)
Temperature Compensation		Automatic (Pt-1000 or NTC 30K) OR Manual Input
Input Impedance		$>10^{12} \Omega$
Display		Large LCD with auto-sense backlight and contrast adjustment
		Text, Chart or Trace Mode (Selectable)
Analog Output	pH/ORP	Isolated DC 0/4~20 mA corresponding to pH/ORP, max load 500 Ω
Serial Communication		RS-485 (MODBUS RTU or ASCII)
Calibration		5 Point
Event Log		Last 50 Events
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. (Not available for PID Version)
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)

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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...



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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.