



DE DYNAMICTM
Process Equipment

Turbidity Analyzer

SmartSense TU-5001-AD
TC-100/500/3000

Core Features of SmartSense Transmitters

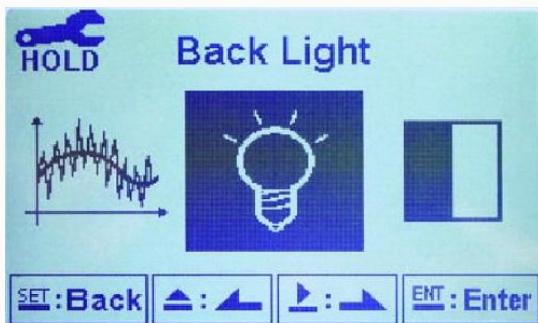
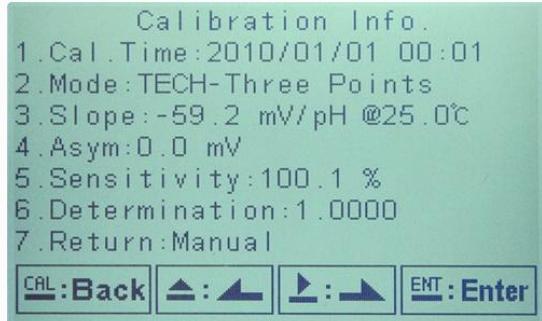


Waterproof protection

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

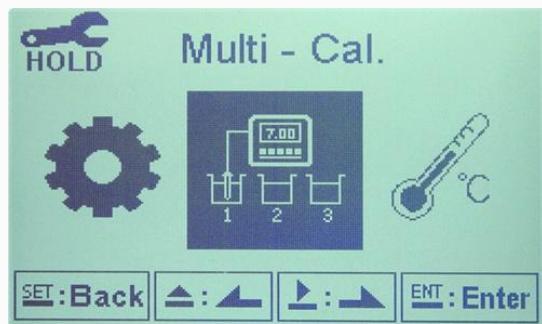


Auto-Sense Backlight Display

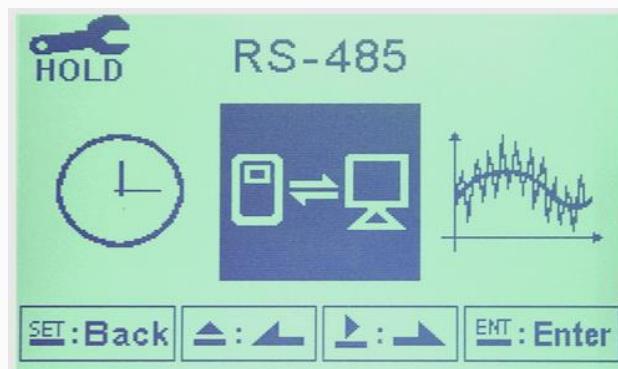
For clear reading and energy saving, it turns on the backlight automatically when the environment becomes dark.

Graphical Menu

Allows extremely intuitive & quick setting and calibration.

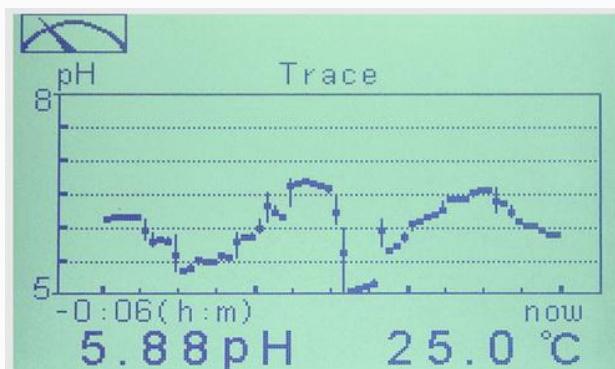
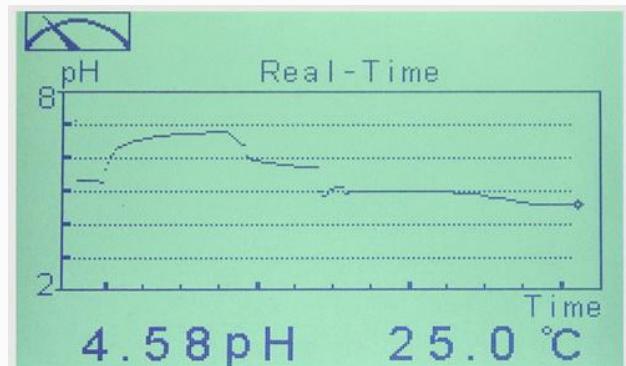


Special Features of Advanced Version Transmitters



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



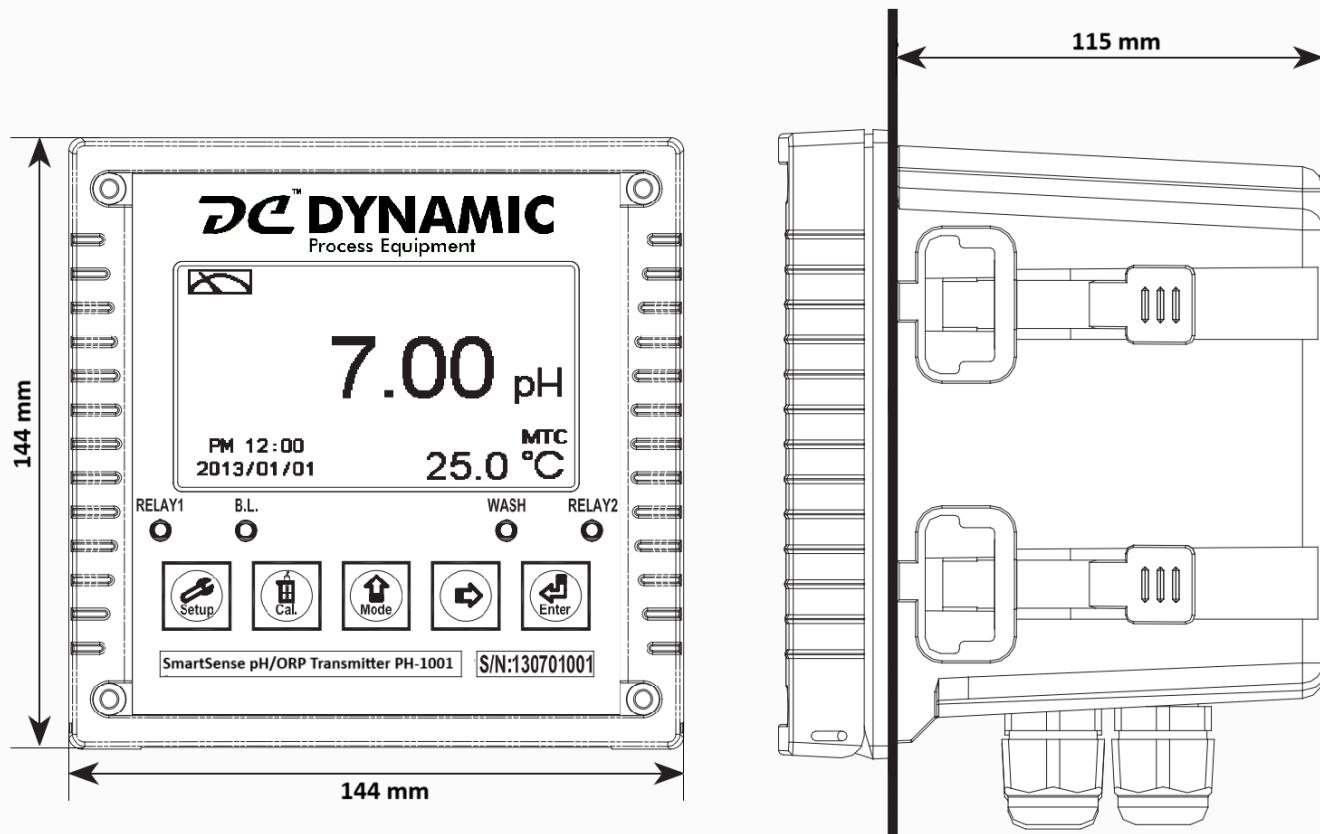
Trace mode
Set up from 3 mins to four weeks duration of the measured value trend graph to help you master the process history

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 ½, 144 x 144:



SmartSense Turbidity Transmitter

TU-5001-AD



The TU-5001 Series Turbidity/Suspended Solid transmitters have rugged IP 65 enclosure and can be installed at control panel or outdoors. When combining with a turbidity/S.S. sensor, and an immersive holder, the complete system is able to provide reliable measurement in a typical wastewater open tank installation.

Applications

- Wastewater/Effluent
- Cooling water/Condensate Collection
- Raw Water
- Activated/Digestion Sludge

Features

- Turbidity / S.S. measurement
- Sensor wiper setting program
- friendly operation with text and graphic illustration, clear signs and easy to understand
- Trace curve, logbook available
- Hi/Lo, Hi/Hi, Lo/Lo selectable two limited contact outputs with programmable set-points and hysteresis
- In built temperature compensation
- Waterproof and dustproof design IP 65 (NEMA 4X)

Specification:

Turbidity Transmitter	
Model	TU-5001-AD
Measuring Modes	Turbidity/Suspended Solids
Measurement Range	0.00~100.00 NTU (TC-100 sensor) 0.0~500.0 NTU (TC-500 sensor) 0~3000 NTU (TC-3000 sensor) 0.0~1000.0 mg/l (ppm) (TCS-1000 sensor)
Sensor Wiper	Auto, sensor internal function for fixed 10 min per wipe, or 30min per wipe(for TC-100 sensor only) Manual, setting from 2~9 min per wipe or 2~29 min per wipe (for TC-100 sensor only)
Electrode Zero	Sensor internal zero point correction activation function
Display	LCD with auto/manual illumination function, Text, Chart, Trace mode
Analog Output	Isolated DC 0/4 to 20 mA corresponding to measurement, max load 500Ω
Serial Communication	RS-485 (MODBUS RTU or ASCII)
Calibration Mode	Standard solution up to 5 points calibration and correction factor calibration (for S.S., MLSS)
Event Log	Last 50 Events
Output Relay	240 VAC, 0.5A max. (recommended)
	Hi/Lo, Hi/Hi, Lo/Lo selectable two limited programmable, ON/OFF
Ambient Temperature	0 to 50°C
Storage Temperature	-20 to 70°C
Power Supply	100V to 240V AC ± 10%, 50/60Hz, 8W Max.
Installation	Transmitter: 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	0.8 kg
Protection	IP 65 (NEMA 4X)

Included with the transmitter: 4 Panel mounting clips

Turbidity Sensor:

TC-100/500/3000

Turbidity / Suspended Solids / MLSS Sensor			
Application	Waste water, Cooling Water, Effluent Treatment		
Model	TC-100	TC-500	TC-3000
Type	Membrane style Amperometric Sensor with 3-Electrode System		
Output	4-20mA Analogue Output		
Measurement Range	0-100 NTU	0-500 NTU	0-3000 NTU
Cleaning System	Both sided swing wiper cleaning system		
Process Range	Temperature	0 to 40 °C	
MOC		SUS316L, Sapphire glass, Fluorocarbon rubber, EPDM, POM	
Cable Connector		Integrated 10M Cable	
Dimensions	Diameter	32 mm	
	Length	163 mm	

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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.

