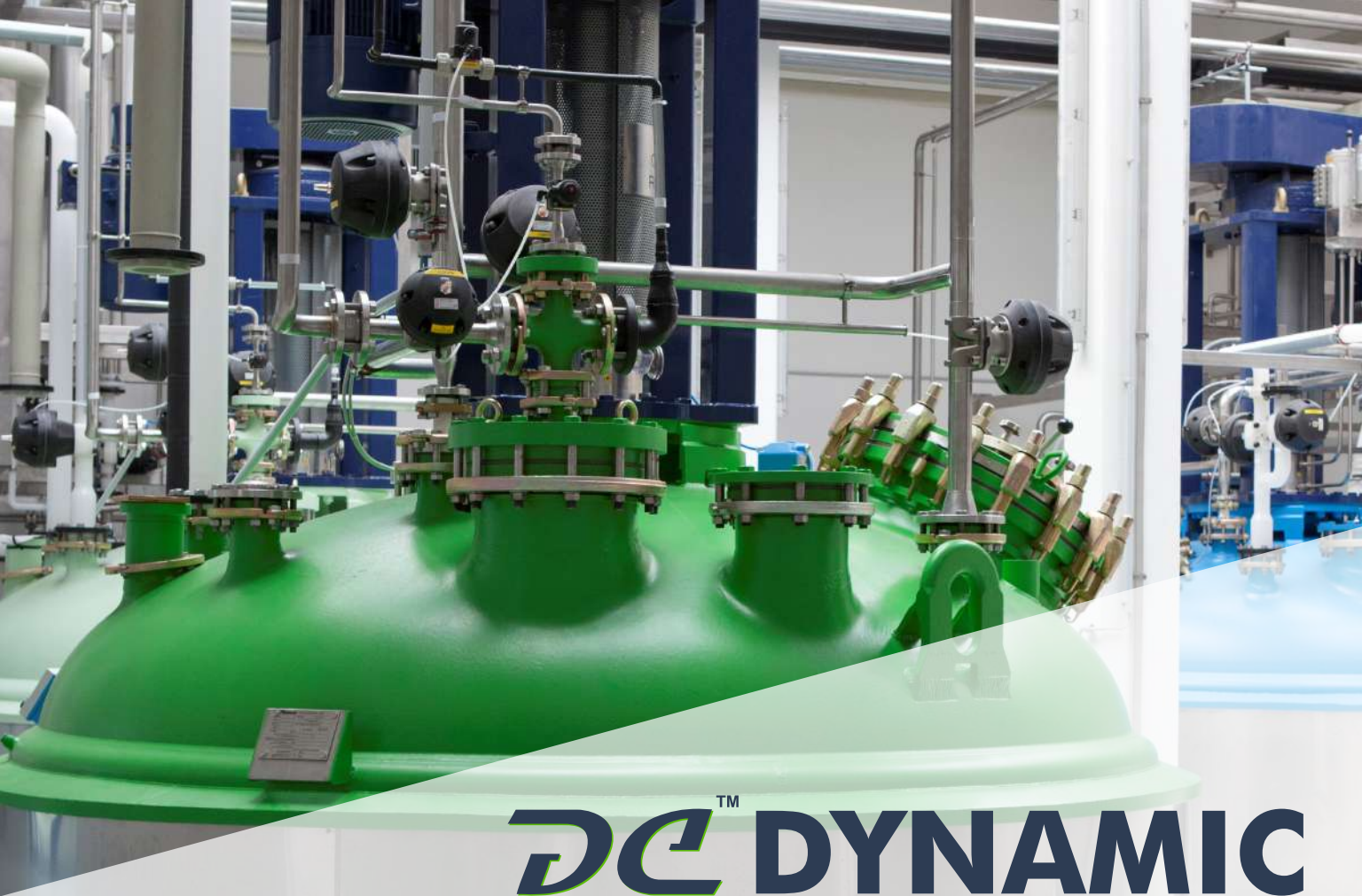




DCTM DYNAMIC

Process Equipment

Sensors | Controllers | Transmitters



Controller Features

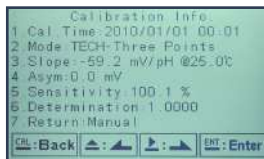


Waterproof protection

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

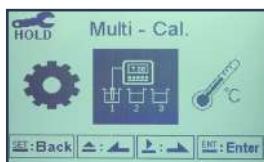


Auto-Sense Backlight Display

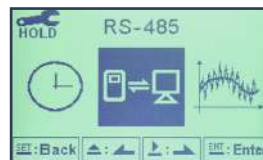
For clear reading and energy saving, it turns on the backlight automatically when the environment becomes dark.

Graphical Menu

Allows extremely intuitive & quick setting and calibration.



Features of Advanced Version



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

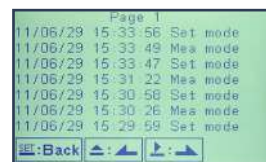


Trace mode

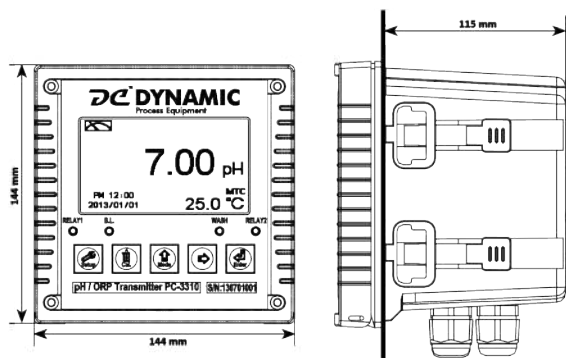
Set up from 3 mins to four weeks duration of the measured value trend graph to help you master the process history

Events logbook

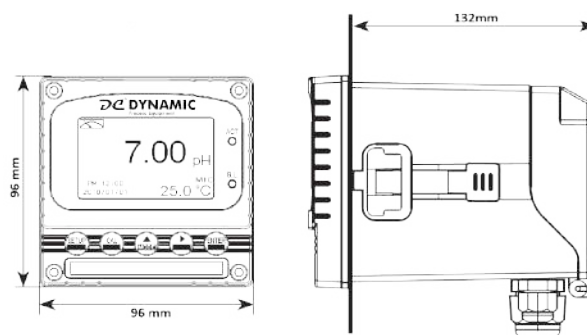
Actions, current output out of range, power outages and error records, no need for standby and record them anymore



Transmitter Dimension Din 1/2, 144x144:



Transmitter Dimension DIN 1/4, 96x96:



Parameter	Model No.	Size	100-240 V AC	12-36 V DC	Relay Output	Analog Output	Rs485	PID	Chart & Trace Mode
pH/ORP	PH-1001	144 x 144	o	o	2X	2X			
	PH-1001-AD	144 x 144	o	o	2X	1X	o		o
	PH-1002	96 x 96	o	o	2X	2X			
	PH-1002-P	96 x 96	o		2X	2X		o	
	PH-1002-AD	96 x 96	o	o	2X	1X	o		o
	PH-1002-AD-P	96 x 96	o		2X	1X	o	o	o
Dissolved Oxygen	DO-2001	144 x 144	o	o	2X	2X			
	DO-2001-AD	144 x 144	o	o	2X	1X	o		o
	DO-2002	96 x 96	o	o	2X	2X			
	DO-2002-AD	96 x 96	o	o	2X	1X	o		o
Optical Dissolved Oxygen	DO-2001-O-AD	144 x 144	o		2X	1X	o		o
Conductivity/Resistivity	CO-3001	144 x 144	o	o	2X	2X			
	CO-3001-AD	144 x 144	o	o	2X	1X	o		o
	CO-3002	96 x 96	o	o	2X	2X			
	CO-3002-AD	96 x 96	o	o	2X	1X	o		o
Inductive Conductivity	CO-3002-IN	96 x 96	o		2X	1X	o		o
	CO-3002-IN-AD	96 x 96	o		2X	1X	o		o
Chlorine/Ozone	CLO-4001-AD	144 x 144	o		2X	1X	o		o
Turbidity	TU-5001-AD	144 x 144	o		2X	1X	o		o
Residual Chlorine + pH	PHCL-6001	96 x 96	o		2X	2X	o		o
Specific Gravity	SG-7002-AD	96 x 96	o		2X	1X	o		o

pH/ORP Sensor



Features:

- ✓ The wide range of DIN standard 12mm glass body pH and ORP sensors are suitable for various industrial applications.
- ✓ Our models ChemSense, FermSense and AquaSense are specially designed for applications such as Chemicals, Fermentation & Bioreactors & Pure Water respectively.
- ✓ These sensors are available with PT-1000 temperature sensor, PG13.5 process connection and various lengths 120, 225 and 325mm.

pH/ORP Model	ChemSense		FermSense	AquaSense
Type	12mm Diameter Glass Body Combination pH/ORP Electrode			
Reference System	Ag/AgCl - Double Chamber + Salt Reserves		Ag/AgCl - Salt Reserves	Ag/AgCl Cartridge System
Liquid Junction	PTFE	Pin Hole	Ceramic	IX or 3X Ceramic
Electrolyte	High Density Gel	High Density Gel	High Density Gel	Liquid
Max Temp / Pressure	135° C / 13 Bar	110° C / 13 Bar	135° C / 6 Bar	135° C / 6 Bar
Sterilizable	No	No	Yes	No

Features:

- ✓ The Ryton body pH Sensors are used for direct immersion and inline measurement in different industrial applications.
- ✓ Selection of the sensor model can be done according to requirement of type of glass bulb, process parameters and process connection.

pH Model	S-400	S-410	ST-873	ST-956
Glass Type	Dome Bulb	Flat Bulb	Dome Bulb	Dome Bulb
Reference System	Ag/AgCl Double Junction		Ag/AgCl Double Junction + Ion Trap	
Max Temp / Pressure	110° C / 10 Bar	110° C / 10 Bar	140° C / 10 Bar	140° C / 10 Bar
Process Connection	3/4" NPT	3/4" NPT	1" NPT	3/4" NPT

Dissolved Oxygen Sensor



Features:

- ✓ Dissolved Oxygen sensors of two different measurement principals i.e. Amperometric and Optical sensors are selected according to the process requirements.
- ✓ Immersion type sensors are used for the measurement of dissolved oxygen in Effluent and Water treatment processes.
- ✓ DIN standard 12mm Diameter, FDA compliant, Stainless Steel body Sterilizable DO sensors are used in Fermentation, Bio-reactors, Food and Dairy applications.

DO Sensor	Amperometric		Optical	
Type	Membrane style Amperometric Sensor with 3-Electrode System		Optical sensor type PST3 and electro-optical module in one probe	
Output	Voltage Signal	nA	Rs485 MODBUS RTU	
Body	1" Immersion	12mm PG13.5	12mm	12mm PG13.5
Sterilizable	No	Yes	No	Yes
Max Temp / Pressure	50 °C / 10 Bar	135 °C / 6 Bar	70 °C / 3 Bar	135 °C / 12 Bar
Cable Connector	7M Cable	Variopin (Vp6)	10M Cable	Variopin (Vp6)

Conductivity Sensor



Features:

- ✓ The conductivity cells from CON-02 and CON-04 have the 2 Electrode and 4 Electrode measurement systems respectively.
- ✓ For use in different applications the selection of model is done as per process conditions, measurement ranges and process connections across various applications including Ultra pure water.

Conductivity Cell	CON-0201	CON-0202	CON-0203	CON-0401HT	CON-0402HT
Type	2 Electrode System			4 Electrode System	
Range	0.05 - 20 µS/cm	0.05 - 100 µS/cm	0.1 - 200 µS/cm	20 µS/cm to 500mS/cm	
Cell Constant	0.01 cm ⁻¹	0.05 cm ⁻¹	0.1 cm ⁻¹	0.5 cm ⁻¹	
Max Temp / Pressure	70° C / 7 Bar			120° C / 7 Bar	
MOC	Titanium			Titanium	Monel
Process Connection	3/4" NPT	3/4" NPT	3/4" NPT	3/4" NPT	3/4" NPT

Inductive Conductivity Sensor ChemSense ICON - 01



Features:

- ✓ The ICON-01 sensor is an inductive (toroidal) conductivity sensor designed for use in medium to very high conductivity, high fouling or coating, corrosive solutions.
- ✓ By encapsulating the sensing elements in chemical-resistant PFA material, this sensor can be integrated into process systems that require long lifespan, reliable conductivity or chemical concentration measurement

Model	ChemSense ICON-01
Range	0.0 to 2000.0mS/cm
Temperature	-20 to 130 °C
Pressure	0 to 16 Bar
Cell Constant	2.7 cm ⁻¹

RADAR Level Transmitter



Features:

- ✓ The 80 GHz RADAR Transmitters are used for Level measurement in different applications such as storage vessels, reactors, silos and open basins.
- ✓ Small 3° Beam angle is helpful for measurement in many difficult situations including narrow nozzles.
- ✓ The selection of different body material, process connection and material of process connection is done depending on the process requirement and parameters.

Type	'80 GHz RADAR Level Transmitters
Beam Angle	'3° / 8°
Range	'up to 30m
Max Temp / Pressure	200 °C / 16 Bar
Enclosure Material	Aluminium / SS
Process Connection	Thread / Flange
Flange Material	SS / PTFE
Interface	Display with Bluetooth

Temperature Sensors



Temperature sensors Thermocouples, PT100 & PT1000 Sensors with 2-wire or 3-wire options.

Features:

- ✓ Various connections such as BSP Threads, Flanged, Triclover, Ingold connections.
- ✓ Various length Size of process connections available.
- ✓ Die Cast Aluminum or SS Flameproof Head available

Immersion Holders



Features:

- ✓ Immersion holders are used for mounting of liquid analytical sensors such as pH/ORP and Dissolved Oxygen sensors in immersion type measurement applications such as ETP and WTP.
- ✓ The immersion fittings provide the necessary support and protection to the sensor in the harsh process conditions.
- ✓ The cleaning kit can be used for the pH/ORP and DO sensors where the media has Fouling material and sticky in nature.

Contact Dynamic Process Equipment for various customized Process Parameter Measurement and Process Automation Solutions.

DCE™ DYNAMIC
Process Equipment

54, Jay Industrial Park, Nr. Nana Chiloda Circle, Off S.P. Ring Road, Muthiya, Ahmedabad – 382330, Gujarat, India.
Sales & Inquiry: +91 74057 28841
Technical Support: +91 74052 35337
info@dynamic-p-e.com | info@dynamoengineering.com | www.dynamic-p-e.com