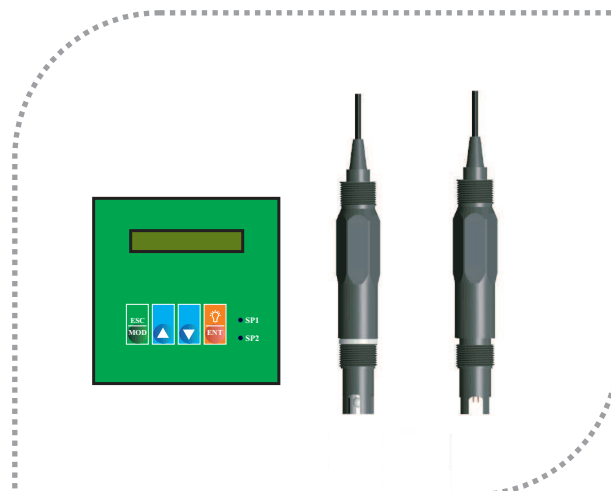


Ensim water quality analysis instrumentation hardware used the precision electronic components, strong anti-interference and reliable stable patent integrated circuit design, which are widely used in aerospace, automotive, military and high-tech fields, simple operation and rich interface software instrumentation system, make the detection signal is more accurate and stable, the current products have been widely used in metallurgy, electronic power, pharmaceutical, chemical, oil, water treatment, food and other industries.



EPH

PH Sensor / PH Controller

EPH 101 , EPH 201 , EPH 301 , EPH 401
EPH-C , EPH-Ci

Features :

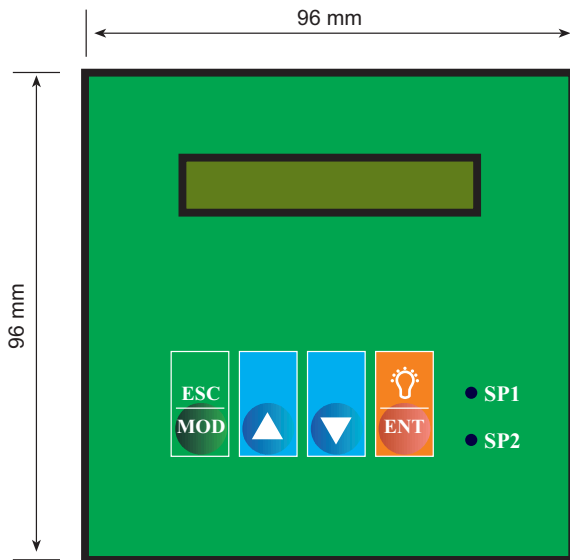
- * LCD display with backlight, English operation interface.
- * Calibration and setting can set cryptoguard.
- * Technical parameters can be set with buttons on site.
- * High stability, high accuracy, can measure PH, ORP and temperature.
- * Temperature compensation.
- * Multiple output (2 relays, 4-20mA, RS485).
- * Supper anti-interference design can be used for strong interference with field operations and anti-electromagnetic interference.
- * The built-in memory chip ensures that the parameters and calibration data are not lost when shut down or off normally.
- * Can automatically detect the temperature probe and enter the automatic temperature compensation program.
- * **Application :** Soilless cultivation, aquaculture, water treatment, thermal power, metallurgy, pharmaceutical, enviromental protection, food, tap water, chemical industry etc.



Specification:

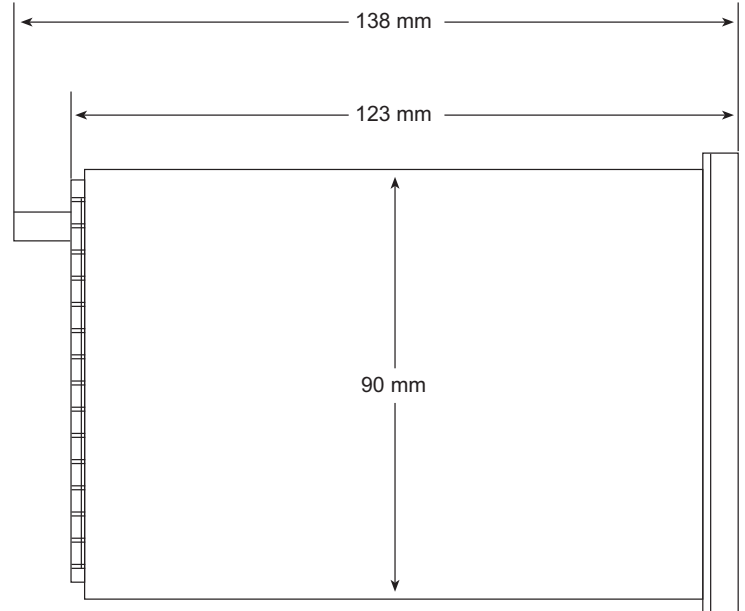
PH	Measure Range	-2.00 ~ 16.00 pH
	Resolution	0.01 pH
	Accuracy	± 0.01 pH
	Input Impedance	$3 \times 10^{12} \text{ W}$
ORP	Measure Range	-2000 ~ 2000mV
	Resolution	0.01 mV
	Accuracy	±1 mV
Temperature	Measure Range	-25 ~ 130 °C
	Resolution	0.01 pH
	Sensor	PT1000
	Compensation	Automatic / Manual
Signal Output	PH / ORP	4-20 mA (Adjustable)
	Current Accuracy	1 % FS
	Load	< 750 W
Relay Output	On / Off	2 SPST Relays
	Load	5A 250VAC / 5A 30 VDC
Data interface		RS485 For (EPH-Ci)
		Compatible With standard MODBUS-RTU
	Power	100 ~ 240 or 24VDC
	Working Tem.	0 ~ 60 °C
	Humidity	< 90 %
	Protection Class	IP 55
	Installation	Panel Mounting
	Dimensions	96x96x138 mm (H*W*D)
	Weight	0.5 kg

For dimension drawing



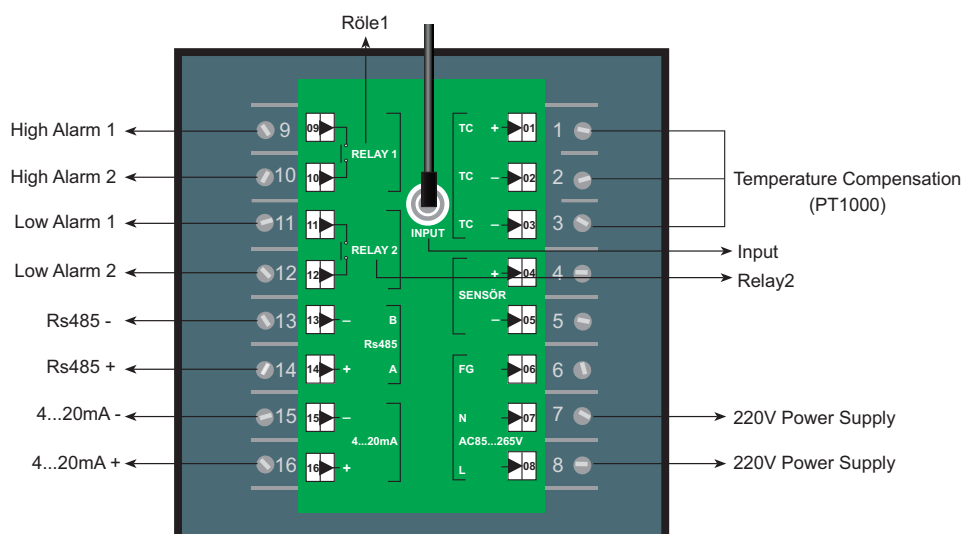
Hole Size : 91mmx91

For dimension drawing



Side dimension drawing

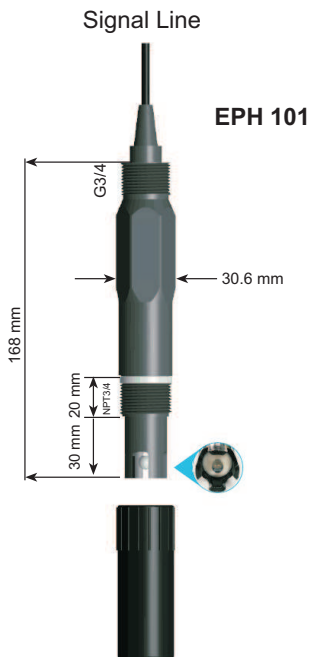
Wiring Diagram



pH Sensor

Uygulama :

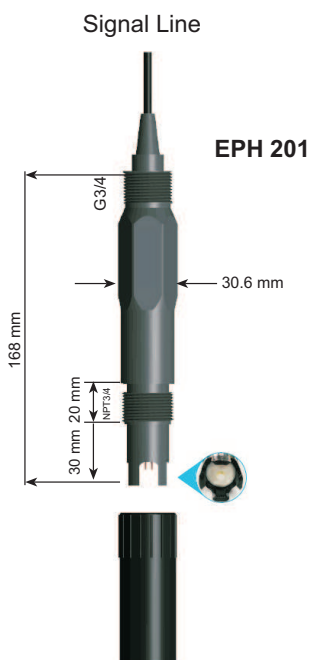
Water treatment, sewage treatment aquaculture, surface water monitoring environmental engineering, cooling tower circulating water, beverages and foods, industrial waste water discharge monitoring.



Specification:

Measuring range	0...14 pH
Zero point potential (pH)	7.00 ±0.25
Temperature range	0.0...60.0 °C
Temperature sensor	Pt 1000 Optional PT100, NTC10K, NTC2.252K
Slope	³96%
Pressure range	0...3 bar
Shell material	PPS
Sensitive membrane	H1020
Membrane resistance	<500M W
Liquid junction	PTFE
Process connection thread	¾
Signal line length (m)	5m,10m or customize
Electrical connection	BNC connector Optional pin, Y insert

ORP Sensor



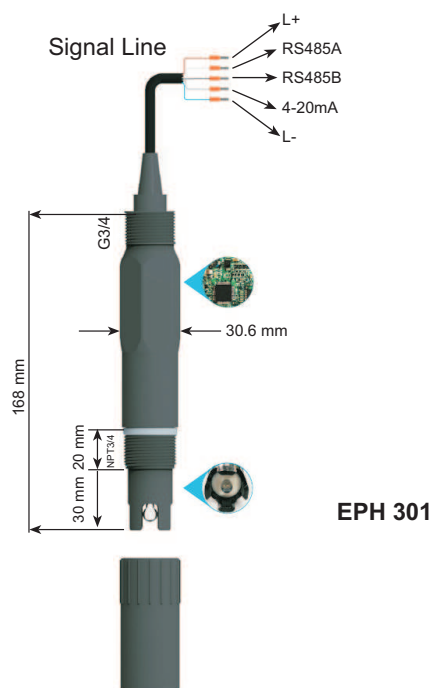
Specification:

Measuring range	-2000...2000 mV
Zero point potential (pH)	7.00 ±0.25
Temperature range	0.0...60.0 °C
Temperature sensor	Pt 1000 Optional PT100, NTC10K, NTC2.252K
Slope	³96 %
Pressure range	0...3 bar
Shell material	PPS
Sensitive membrane	H1020
Membrane resistance	<500M W
Liquid junction	PTFE
Process connection thread	¾
Signal line length (m)	5m,10m or customize
Electrical connection	BNC connector Optional pin, Y insert

Intelligent PH Sensor

Application:

Water treatment, sewage treatment aquaculture, surface water monitoring environmental engineering, cooling tower circulating water, beverages and foods, industrial waste water discharge monitoring.



Specification:

Measuring Range	0...14 pH
Resolution	±0.01 pH
Accuracy	±0.01 pH
Temperature Measure Range	0.0...60.0 °C
Resolution	0.1 °C
Accuracy	±0.3 °C
Temperature Compensation	Automatic / Manual
Output	4...20 mA (Adjustable / three-wire)
Accuracy	1% FS
Load	<500 W
Data Communication	RS485 (MODBUS-RTU)
Other	
Power Supply	9...30VDC (recommend 12VDC)
Humidity	<90 %
Pressure Range	0...3 bar
Shell Material	PPS
Liquid Junction	PTFE
Thread	3/4 BSP
Cable Length	5m Signal Line
Protection Class	IP 68

Intelligent ORP Sensor

Specification:

Measuring Range	-2000...2000 mV
Resolution	0.01 mV
Accuracy	±0.01 mV
Temperature Measure Range	0.0...60.0 °C
Resolution	0.1 °C
Accuracy	±0.3 °C
Temperature Compensation	Automatic / Manual
Output	4...20 mA (Adjustable / three-wire)
Accuracy	1% FS
Load	<500 W
Data Communication	RS485 (MODBUS-RTU)
Power Supply	9...30VDC (Recommend 12VDC)
Humidity	<90 %
Pressure Range	0...3 bar
Shell Material	PPS
Liquid Junction	PTFE
Thread	3/4 BSP
Cable Length	5m Signal Line
Protection Class	IP 68

