



Advance Multi-Parameter Analyzer pH, ORP, Temp.

Model 6309POT

Improve quality control, reduce process downtime, enhance research and development, meet regulations, all while keeping cost low.

The Right Features To Measure, Analyze And Control pH, ORP And Temperature

Accurate and stable readings.

5 programmable on/off relays: 2 for pH, 2 for ORP and 1 for temperature.

Automatic temperature compensated (ATC) pH and ORP readings.

Displays absolute and relative ORP.

Programmable hysteresis for customized control.

Isolated and reversible 4-20 mA current output assignable to pH or ORP. This output can be used as a proportional output.

RS-485 output for remote access via an IBM compatible computer. This allows multiple units to be connected, ganged, together.

Large, Graphical, Backlit LCD Display

Simultaneous display of: pH, ORP, temperature, relay status and transmitter current mA output.

Clear, bright LCD with manual backlight switch for added visibility in dark working conditions.

Quick And Easy Setup, Intuitive Operation

Setup and calibration are done through a friendly, user-guided menu.

Convenient calibration with automatic buffer recognition of US and European buffer sets. Calibration data is stored in memory and is ready for use on power up.

Included panel mount bracket tightly secures the analyzer.

Standard ¼ DIN size.

Standard terminal block for tinned leads connectors. Spade lug connector for pH and ORP.

Low Maintenance

Performs self-diagnostic at power up to ensure proper operation.

Analyzer is in a complete watertight case (IP65).

Displays pH electrode efficiency for optimized electrode maintenance.

Membrane keypad with tactile and audio feedback improves durability and usability.

Password protection ensures the right people have access to change settings.

Specifications

Range

pH	- 2.00 to 16.00 pH
ORP (absolute / relative)	- 2500 to 2500 mV / -3999 to 3999 mV
Temp	- 10.0 to 120.0 °C

Resolution

pH	0.01 pH
ORP (absolute / relative)	1 mV / 1 mV
Temp	0.1 °C

Accuracy

pH	± 0.01 pH ± 1 LSD
ORP (absolute / relative)	± 0.2 % of span / ± 0.2 % of span
Temp	± 0.1 °C ± 1 LSD

General

pH and ORP:

pH Temp Compensation	Auto -10.0 to 120.0 °C
pH Buffer Recognition	4.00, 4.01, 6.86, 7.00, 9.18, 10.01
pH Buffer Temp. Range	0 to 60 °C
PH Electrode Offset Recognition	± 100 mV at pH 7.00 - 91.7 to +108.3 at pH 6.86
pH Electrode Slope Recognition	± 30 % at pH 4.00, 4.01, 9.18 or 10.01
Input Impedance	>10 ¹³ ohms
Calibration End Point Sensing	Yes

Temperature:

Temperature Sensor	Thermistor, 10.00 k ohm at 25 °C
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4-20 mA Analog Output:

Input Select	User selectable pH or ORP
Current Output Range	4 to 20 mA (isolated), programmable span
Current Output Scale	User programmable, linear or log
Maximum Load	500 ohm
Accuracy	± 0.02 mA
Isolation Voltage	500 V DC

Relays:

Control Type	5 ON/OFF controls
Relay Output	5 A at 115 V AC or 2.5 A at 220 V AC, resistive load only

Other:

Power Supply	115 V AC or 230 V AC at 50/60 HZ
Security	4-digit password
Audio Feedback	All Touch Keys
Communication	RS-485
Fuse	0.315 A / 250 V AC at 50/60 Hz
Display	128 x 64 graphical LCD with backlight
Ambient Temp. Range	0 to 50 °C
Case	IP65, 1/4 DIN case, 148 mm depth
Weight	950 g

Accessories

General purpose or custom electrodes

NEMA 4 enclosures

