



pH / ORP ANALYZER PHO6300 / PHO6300+

BENEFITS

- Direct measurement of pH
- Patented polymer gel 'double junction'
- Extended life by 50%
- Automatic temperature compensation
- Faster response
- Better stability and reproducibility

STANDARD FEATURES

- Accepts two probes
- pH/ORP and temperature display
- PID control
- On board datalogs
- Multiple communication protocols

OPTIONAL FEATURES

- Automatic calibration
- Choice of pH, ORP, chlorine, or ozone probes
- Capability to except 4 probes (PHO6300+)
- Modbus RTU
- TCP/IP (Webserver)
- USB
- RS485
- TTL
- Bluetooth

APPLICATIONS

- Water Treatment
- Waste Water Treatment
- De-Ionized Water
- Boiler Water
- Industrial Effluent

DESCRIPTION OF OPERATION

At the heart of the PHO6300 and PHO6300+ are the K-series pH and ORP electrodes. These patented electrodes are filled with a polymeric gel. This innovative design makes the electrodes more responsive and sustain a longer life than ordinary electrodes. Although they command a higher price in the marketplace, these sensors are more than cost-effective with their longer life and considerably lower maintenance requirements.

The PHO6300 offers a vast array of communication protocols including Modbus, TCP/IP (with webserver), USB, RS485, TTL, 4-20mA outputs, and relay outputs. Despite all of the additional functionality that this unit has to offer, the purchase costs are less than or comparable to, its competitors.



pH/ORP

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GENERAL SPECIFICATIONS

pH Sensor Probe

Type:	W-Type Rod membrane pH electrode
Reference Type:	Patented
pH Range:	0-14
Slope:	95-102%
Pressure Range:	0 - 43.51 PSI
Long Term Stability (drift):	< 0.01 pH/hour
Reproducibility:	< 0.01 pH
EO:	-25mV to +25mV
Electrode Resistance:	100-500 mega ohms
Response Time:	95% of step pH2 to pH12 < 5s
Temperature Range:	32°F - 104°F (0°C - 40°C)
Cable Length:	6m
Shelf Life:	12 months
Temperature Compensation:	Automatic by an integrated thermistor PT100 (ATC)
Estimated Life:	12 - 18 months application dependent

ORP Sensor Probe

Type:	Platinum ball
Reference Type:	Patented
ORP Range:	-1999 to 1999mV
Slope:	95-102%
Pressure Range:	0 - 43.51 PSI
Long Term Stability (drift):	< 0.01 mV/hour
Reproducibility:	< 0.01 mV
Electrode Resistance:	<2 mega ohms
Response Time:	95% of step pH2 to pH12 < 5s
Temperature Range:	32°F - 104°F (0°C - 40°C)
Cable Length:	6m
Shelf Life:	12 months
Temperature Compensation:	Automatic by an integrated thermistor PT100 (ATC)
Estimated Life:	12 - 18 months application dependent

Analyzer

Power:	110-240 VAC
Fuse:	1A (100-240 VAC)
Display:	LCD backlit 128x64 graphical
Outputs:	2 4-20mA outputs 2 configurable alarm relays
Inputs:	1 low flow alarm 1 low buffer alarm
Communication protocols:	RS485 Modbus TCP/IP (Webserver) USB TTL Bluetooth (optional)
Datalogging:	One year at 15 min. intervals (equiv.)
Eventlogging:	500 events

Autocalibrator (optional)

Power:	110 - 240 VAC 24 VDC (Fixed)
Outputs:	Low flow alarm

GSM/GPRS Modem (optional)

Power:	110-240 VAC 12/24 VDC (optional)
Sim Card:	User supply
Region:	Quad band