



6309PDT Advanced Multiparameter Analyzer

Analyze pH, Dissolved Oxygen, and Temperature simultaneously



Description

The Advanced Multiparameter Analyzer is a rugged password protected microprocessor based instrument assembled in a watertight 1/4 DIN case, designed for use in laboratories and process control applications. The Analyzer offers accurate, stable, and automatically temperature compensated pH and DO readings. Additionally you can program the hysteresis for customized control and select the salinity and pressure compensation for DO readings using the membrane keypad with tactile and audio feedback. The Analyzer has 5 programmable on/off relays: 2 for pH, 2 for DO and 1 for temperature and an isolated and reversible 4-20 mA current output assignable to pH or D.O. that can be used as a proportional output. The Analyzer also has a RS-485 output for remote access via an IBM compatible computer allowing for multiple units to be connected together.

The Advanced Multiparameter Analyzer has a large and bright LCD screen with manual backlight switch for added visibility in dark working conditions LCD screen that simultaneously displays: pH, D.O., temperature, relay status and transmitter current mA output. The LCD also displays pH electrode efficiency for optimized electrode maintenance.

The Advanced Multiparameter Analyzer provides quick setup and calibration through a friendly, user-guided menu. The analyzer conducts a self diagnostic on startup and offers convenient pH calibration with automatic buffer recognition of US and European buffer sets. All calibration data is stored in memory and is ready for use on power up. D.O. readings only require one point calibration. The Analyzer's included panel mount bracket tightly secures the analyzer and has standard terminal block for tinned leads connectors with a spade lug connector for pH.

- Simultaneous display of: pH, D.O., temperature, relay status and transmitter current mA output.
- 5 programmable on/off relays: 2 for pH, 2 for D.O. and 1 for temperature.
- Setup and calibration are done through a friendly, user-guided menu.
- Clear, bright LCD with manual backlight switch for added visibility in dark working conditions.
- Analyzer is in a complete watertight case (IP65).

Specifications

pH:

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: >10¹³ ohms
Calibration End Point Sensing: Yes

DO:

Salinity Compensation: Manual 0.0 to 40.0 ppt
Pressure Compensation: Manual 640 to 1100 mBar
Temperature Compensation: Auto -10.0 to 50.0 °C

Temperature:

Temperature Sensor: Thermistor, 10.00 k ohm at 25 °C

4-20 mA Analog Output:

Input Select: User selectable pH or D.O.
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 VDC

Relays:

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

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, 6 in (148 mm) depth

Weight: 2 lbs (950 g)

Options and Accessories

6309PDT Advanced Multiparameter Analyzer
(Sensors not included.)

Contact
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for all your
instrumentation
needs:

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Water Flow

Water Samplers

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Weather

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