



Aysix technologies
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Model A6-IIG-1000 Single Channel Dissolved Oxygen Analyzer

Supports 1 Aysix Optical Dissolved Oxygen Sensor (Model 10).

NEMA 4x enclosure with 4 predrilled and plugged conduit holes.

Part Selection and design conforms to applicable UL/CSA/CE safety standards.

115/230 VAC selector switch; 50/60 Hz: Heater terminals; standard glass fuse

No required initial calibration.



LCD Display:

- 2 Alphanumeric Lines of at least 16 characters each.

- Readable from 0 to 70 degrees C (display temperature)

- Contrast adjustable through keypad

- LED Backlighting

- Indicates D.O. and Temperature during RUN mode

- Tactile feel keypad

- Displays D.O. over the range of 0 to 10PPM. Displayed resolution to be 1 decimal place between 4 and 10 PPM, and 2 decimal places resolution below 4 PPM. Accuracy to be 0.05 PPM

- Temperature to be displayed in either degrees Fahrenheit (resolution 1 degree) or Celsius (resolution 0.1 degree) over the range of 0 to 50 degrees C.

Relays:

- 4 relays total (2 SPDT form C and 2 Normally Open)

- All Contacts 250VAC 6 Amps resistive load.

- Both form C and 1 Normally open relay to be programmable D.O. setpoints with user selectable hysteresis.

- 1 of the normally open relays programmable for jet wash operation.

Analog Output: 4-20mA outputs

- Inherently isolated active outputs 600 Ohms

- 1 channel indicates Dissolved Oxygen over programmable range

- 1 channel indicates temperature over fixed 0 to 50 degree range

- 4 and 20 mA electrical values adjustable through key pad over 2 mA range

RTU protocol Modbus port with baud selectable 1200 to 19200.

Analyzer firmware will be stored on flash memory. Updates will be possible in the field, but may require distribution of a special cable or adapter.



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Model A6-10 Dissolved Oxygen Sensor

1. Sensor shall measure dissolved oxygen concentration using the fluorescence quenching properties of a ruthenium compound.
2. Sensor is intended for end-of-pole mounting in open channel or tank applications.
3. Sensor electronics and optical elements will be entirely encapsulated within polyurethane or epoxy compounds.
4. Ruthenium impregnated sensing element shall be a field replaceable, economical item with gasket or o-ring compression seal.
5. Temperature shall be measured using a 2252 Ohm NTC thermister.
6. 4-wire interface to analyzer shall digitally encode readings for noise immunity.
7. Sensor shall have built in transient protection devices.
8. It shall not be possible to damage the sensor electronics by shorting any of the 4 analyzer sensor terminal block.
9. Sensor cable to be electrically shielded and have an overall polyurethane jacket.
10. A jet wash port connection shall be molded into the sensor as a standard feature.

