Aysix technologies
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Model 2000 Dual Channel TSS/D.O. Analyzer

Supports any combination of 2 Aysix optical sensors. Automatically senses type of sensor and responds.



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

Graphic Display:

At least 128x64 pixels
Readable from 0 to 70 degrees C (display temperature)
Contrast adjustable through keypad
LED Backlighting
Tactile feel keypad
For Model 15 Sensor, displays TSS over the range of 0 to 30,000 mg/l. Displayed resolution will be 3 active digits, but no decimal places.
For Model 10 sensor, 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

Relays:

4 relays total (2 SPDT form C and 2 Normally Open)
All Contacts 250VAC 6 Amps resistive load.
Form C relays will act as setpoints with user programmable hysteresis. One relay will be assigned to each channel.
The normally open relays shall be programmable for jet wash operation. This programming will be selectable as independent, or acting in concert to allow the use of a single compressor for both channels.

Analog Outputs: 4-20mA

Inherently isolated active outputs 600 Ohms, 1 for each channel.
D.O. channels shall indicate D.O. over a programmable range.
TSS channels shall indicate TSS over a programmable 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. Each channel shall respond to a separate address, although there will be only 1 physical connection.

Analyzer firmware will be stored on flash memory.

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Model 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 transient protection devices built in.
8. It shall not be possible to damage the sensor electronics by shorting any of the 4 connection wires together, or connecting these wires in the wrong order to the 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.



Model 15 Total Suspended Solids Sensor

1. Sensor shall measure TSS using the single light gap absorption principle.
2. Sensor will utilize an infrared emitter to eliminate color effects.
3. Sensor shall compensate for emitter variations in temperature by measuring source brightness.
4. Model 15 will have a .25 inch gap suitable for measuring suspended solids over the 0 to 30,000 mg/l range.
5. Sensor is intended for end-of-pole mounting in open channel or tank applications.
6. Sensor electronics and optical elements will be entirely encapsulated within polyurethane or epoxy compounds.
7. 4 wire interface to analyzer shall digitally encode readings for noise immunity.
8. Sensor shall have transient protection devices built in.
9. It shall not be possible to damage the sensor electronics by shorting any of the 4 connection wires together, or connecting these wires in the wrong order to the analyzer sensor terminal block.
10. Sensor cable to be electrically shielded and have an overall polyurethane jacket.
11. A jet wash port connection shall be molded into the sensor as a standard feature.