Suspended Solids Analyzer

The Suspended Solids Analyzer / Single Channel Analyzer (SCA) is a unique system that combines advanced electronics with solid-state, smart sensors. The analyzer will accept One standard SS sensors and automatically configures for the correct operation. The system allows for flexible and economical process monitoring and control

Analyzer Specifications

- The monitor shall be housed in a fiberglass NEMA 4X enclosure with brackets for wall or standard round handrail mounting.
- It shall have a digital display controlled by microprocessor circuitry.
- All run, programming, and calibration functions shall be accessible without having to open the enclosure.
- Unit shall be pre-calibrated at the factory.
- Provide a minimum of 2 setpoint relay outputs, an alarm relay output and a self-cleaning relay output.

Standard Outputs

- Two isolated 4-20 milliamps signals
- Two setpoint relays
- One setpoint or alarm relay
- One cleaning relay
- RS-485 ModBus RTU signal

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- Provide an extended temperature, UV treated LCD digital display for continuously showing all sensor readouts. Programming and diagnostics are also provided through this display.
- Provide self-diagnostics for the sensors and analyzer. Analyzer shall have error messages in the operating mode for higher of lower than normal sensor output voltage, temperature input outside the 0-60 degree C range, and unstable instrument circuitry; error messages in the calibrate mode for unstable sensor temperature (after a 5-minute wait), unstable output of the sensor (after a 5-minute wait), and weak sensor output level.
- Provide isolated RS-485 MODBUS RTU serial communication port for analyzer status, sensor status, and all outputs.
- Provide two 4-20 MADC isolated output for sensor readings.
- Provide as standard a back-lit LCD display.
- Display suspended solids in mg/l. The accuracy of the SS reading will be 3% of reading. The resolution will be;

1 mg/l if the reading is less than 1000 mg/l,
10 mg/l if the reading is between 1000 mg/l and 10,000 mg/l,
100 mg/l if the reading is over 10,000 mg/l.

The model 15 & 15L Suspended Solids sensors incorporate near infrared technology which provides increased dependability of the reading when color changes in the solids occur. Accurate, real-time solids loading information. The sensor will use a 880 nanometer emitter. The sensor will automatically compensate for temperature variations

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Sensors Specifications

- There are two ranges available.
- Measuring Range: M15 = 250 to 30,000 mg/l and M15L = 0 to 1,500 mg/l
- Accuracy: for M15 = +/- 5% of the reading or +/- 100 mg/l whichever is greater and for M15L = +/- 5% of the reading or +/- 2 mg/l whichever is greater
- Repeatability: +/- 1% of the reading or +/- 2 mg/l whichever is greater
- Response time: 95% in under 60 seconds

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