

Liquid Analytical Analyzer Dual Channel

Use for Specification Writing

Analyzers shall be for continuous monitoring or control of pH, ORP, Conductivity, or Dissolved Oxygen. The monitoring system shall consist of an electronic monitor, sensor, mounting accessories and hardware as defined in section XX.

Analyzers shall be

- Full DIN size capable of panel or remote mounting
- CSA Type 4 (NEMA 4X) outdoor environmental rated for continuous operation from 0- 60C
- Have an electrical repeatability of no less than of 0.05% span and output accuracy of no less than 0.01ma
- Up to two channels of PID control with Accutune and fuzzy logic

The analyzer measurement configuration shall be easily field changeable to any measurement input or mixed combination input of pH, ORP, Conductivity, or Dissolved Oxygen via pre-calibrated plug in input cards. Input cards shall be auto-recognized by the device.

The display shall be a graphic backlit LED design capable of simultaneously displaying two channels of measurement plus temperature, alarm status, set point, and diagnostics in one display screen.

Programming shall be menu driven via front keypads and a wireless infrared interface to a PC or Pocket PC. Keypad input shall be protected with a software lock and all configuration programming shall be protected by an access code.

Two isolated 4-20 ma outputs shall be available with a third isolated output optional. Outputs shall be assignable to the measurement PV or temperature. All measurement inputs shall be fully isolated from each other.

Two independently programmable relays shall be standard and two additional relays optional. Relays shall be independently programmable for PV, temperature, diagnostics, hi/lo alarm, dead band, and hysteresis. Two set points per alarm will be available.

Analyzer shall be the UDA2182 series.

Specific to Dissolved Oxygen analyzer inputs:

Dissolved Oxygen measurements shall have auto atmospheric pressure compensation for ease of calibration.

Sensors

Non-Glass pH Sensor

pH sensors shall be of the Durafet non-glass ISFET design with integral temperature compensation. Sensors are to be selected for either in-line flow arrangements or for direct immersion. For immersion applications the sensor shall be of the Durafet III design with remote cable and Vario Pin watertight connector.

Dissolved Oxygen Sensor

Dissolved oxygen sensors shall be of the equilibrium design requiring no internal maintenance. The DO sensor will be capable of operating under zero flow conditions.

Sensors will be capable of immersion, in – line and flow through mounting. Sensor bodies will be manufactured in PVC or Stainless Steel. An integral temperature-compensating device will be installed in the Sensor.