



RPH-260 Residual Analyzer With one or two disinfectant probes

The RPH-260 residual analyzer offers a variety of probe and measurement options spanning various applications. The system can be provided with a maximum of two each of disinfectant probes, pH probes, and temperature sensors.

Features

- Does not use chemical reagents.
- Available with one or two disinfectant probes for free chlorine, total chlorine and various other probe types.
- Available with zero, one or two pH sensors.
- Available with one or two temperature sensors.
- Available with pH & temperature compensation without the need for buffer chemicals.
- Open or pressurized flow cell depending on probe type.

Controller Features

- Graphical color 320 x 240 pixel display
- Four selectable 4-20 mA analog outputs (Residual 1, residual 2, pH 1, pH 2, T 1, T 2, PID control)
- Four selectable alarm relays
- Optional data logger to MicroSD card
- Modbus RS-485 communication

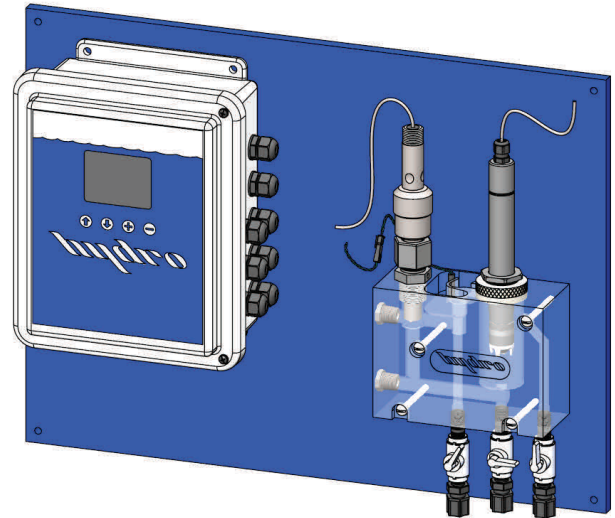
Description

Measurement is continuous, not relying on sample and hold methods, thereby allowing for better process control. The disinfectant probe is easily accessible, easily serviceable and is low maintenance.

The RPH-260 is available with pH compensation performed in software and internal data logging capability.

Disinfectant measurement probes are sensitive to pressure and flow fluctuations. Therefore it is critical to maintain constant sample water pressure, flow rate and avoid bubbles. To achieve this we offer two types of flow measurement cells. The open flow cell with bubble trap is standard for probes F1, F2, and T1, while a closed flow cell is used for probe F3 using probes with exposed electrodes a cleaning head to keep the electrodes clean and free of bubbles. The F3 probe cleaning head requires a higher sample water flow rate and pressure and so these probes are mounted in a closed flow cell.

Hydro Instruments publishes a probe selection data sheet and other documents that can be used to select the probe that is right for each application.



Basic Specifications

MEASUREMENT

Sample Water Flow Rate: 15-30 l/hr (4-8 gal/h) for open flow cell

45-90 l/hr (12-24 gal/h) for F3 probe with CEH-F3 cleaning head

Sample Pressure: 5 PSI (0.3 bar) for open flow cell

15 PSI (1 bar) for F3 probe with CEH-F3 cleaning head

Sample Supply: Continuous. Note: Probes with a membrane cap must be kept wet.

Speed of Response: Dependent on probe selected

Resolution: 0.01 ppm or +/-1% of range, whichever is larger.

ELECTRICAL

Power Requirements: 90—255VAC, 50-60 Hz, single phase

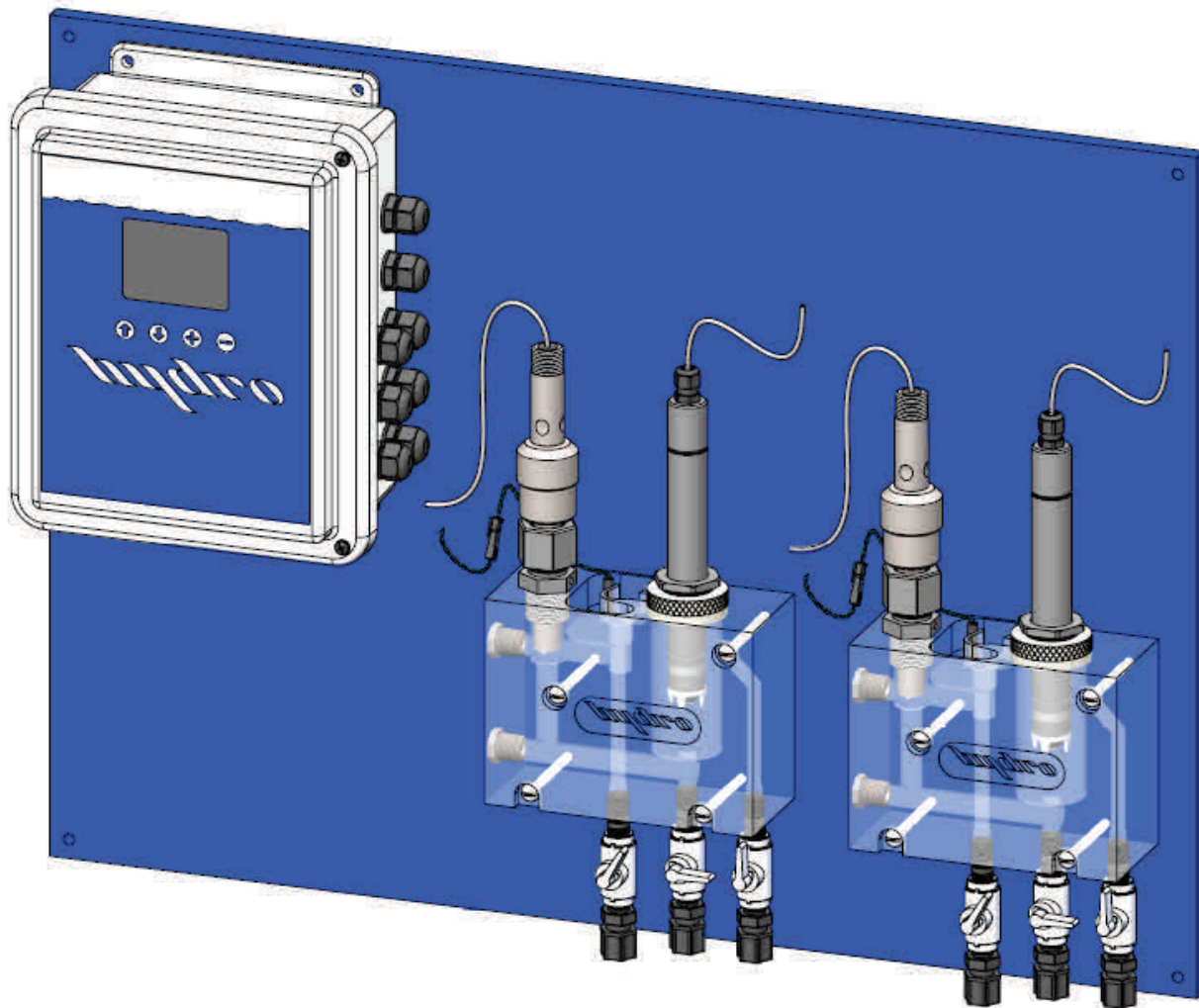
4 Analog Outputs: (4) isolated 4-20 mA (residual, pH/ORP, Temperature, Turbidity, or control)

4 Relay Contacts: 10 Amps @ 120 VAC or 24 VDC, resistive load, 5 Amps @ 240 VAC, resistive load

P&ID Input Signal: 4-20 mA (flow)

Modbus: RS-485 Two-way communication

Data Logger: Optional data logging writes data on a removable MicroSD card



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