



Series RPH-250 Residual Chlorine Analyzer

- Amperometric Probe-Style Residual Analyzer (Free or Total Chlorine)
- Available with pH & temperature compensation without buffer chemicals for Free Chlorine
- Includes complete PID control program (standard)
- Provides two analog outputs (selectable between residual, pH and control signals) and one alarm relay
- Optional Data Logger
- Adjustable measurement range
- Continuous Measurement/Fast Response
- 2 line x 20 character LCD Display
- Includes PRV, Gauge, Sample Flow Rate Valve and Meter Tube (standard)



DESCRIPTION:

The Series RPH-250 Analyzer makes use of the Amperometric method to determine residual levels in the sample water. The measurement is continuous, not relying on sample and hold methods, thereby allowing for better process control. The measurement probes offer easily replaceable membrane caps.

The Series RPH-250 Chlorine Analyzer is optionally available with pH compensation performed in software. The Chlorine measurement range is field adjustable. This analyzer includes a complete PID control program as a standard feature.

Because Chlorine residual measurement probes are sensitive to pressure and flow fluctuations, the RPH-250 is provided with everything needed to supply a steady sample water pressure at a consistent flow rate. A plastic pressure regulating valve with an attached pressure gauge is included with each unit. An integrally designed flow control valve and graduated metering tube make setting and maintaining the sample flow a snap.



Basic Specifications:

MEASUREMENT

Temperature Range:	5° to 45° C (41° to 113° F)
Sample Water Flow Rate:	30-100 ml/minute / 8-26 gal/hr (must be kept steady)
Sample Pressure:	10 - 15 PSI recommended
Sample Supply:	Continuous. Membrane must be kept wet with fresh water.
Speed of Response:	10 seconds. Full-scale residual change 90 to 120 seconds.
Sample Water:	Metal ions or corrosion inhibitors effect operation.
Range:	0-2, 0-5, 0-10, 0-20, 0-100, 0-200 PPM
Accuracy:	0.01 ppm or +/-1% of range, whichever is larger.
Sensitivity:	0.01 ppm (10 ppb)

ELECTRICAL

Power Consumption:	16 VA
Power Requirements:	120VAC, 50/60 Hz or 240VAC, 50/60 Hz, single phase
Output Signal:	(2) isolated 4-20 mA (residual, pH, temperature or control)
Relay Contact:	10 Amps @ 120 VAC or 24 VDC, resistive load, 5 Amps @ 240 VAC, resistive load
Input Signal:	4-20 mA (flow)

Series 250 Residual Analyzer Amperometric Probe Type

Model: RPH-250 – _____

MEASUREMENT TYPE

- F. Free Chlorine
- T. Total Chlorine

PH PROBE (For Automatic pH Compensation)

- 1. Not Included
- 2. Included (for Free Chlorine only)

MEASUREMENT RANGE

- 1. 0 - 2 PPM
- 2. 0 - 5 PPM
- 3. 0 - 10 PPM
- 4. 0 - 20 PPM
- 5. 0 - 100 PPM (for Free Chlorine only)
- 6. 0 - 200 PPM (for Free Chlorine only)

POWER REQUIREMENTS

- 1. 120V 60Hz
- 2. 240V 50Hz

DATA LOGGER

- 1. Not Included
- 2. Included

NOTE: It is not recommended that Automatic pH compensation be used for applications with sample water of pH 8.5 or higher. In these instances the pH of the sample water should be buffered before entering the residual analyzer.

Additional Accessory/Replacement Items

Note: Pressure Regulating Valve, Pressure Gauge, Needle Valve, and Rotometer are included (standard).

- MCH-250** Replacement Membrane/Cap Assembly (**Free Chlorine**)
- REH-250** Replacement Electrolyte (3-5 cap replacements / 30 ml) (**Free Chlorine**)
- PHE-250** Replacement pH Electrode
- TMC-250** Replacement Membrane/Cap Assembly (**Total Chlorine**)
- TRE-250** Replacement Electrolyte (10 cap replacements / 30 ml) (**Total Chlorine**)



INSTRUMENTS

