



RPH-250 & RPH-260 Chlorine Residual Analyzer Probe Quick Reference Sheet

The Hydro Instruments RPH-250 and RPH-260 chlorine residual analyzers can be outfitted with a variety of different disinfectant sensors. The below table is a complete list of available disinfectant sensors and their recommended application.

Disinfectant	Probe	Application
Free Chlorine	F1	Membrane-covered, amperometric 2-electrode system. For the measurement of free chlorine at constant pH.
	F2	Membrane-covered, amperometric 3-electrode system. For the measurement of free chlorine with reduced pH dependence. Suitable for seawater. Available for high range measurement.
	F3	Sensor for the measurement of free chlorine with bare electrodes (i.e. no membrane). Available with a self cleaning device.
	F5	Membrane-covered, amperometric 2-electrode system. For the measurement of free chlorine at constant pH. For extremely high free chlorine concentrations.
	F6	Membrane-covered, amperometric 3-electrode system. For the measurement of free chlorine on the basis of iso-cyanuric acid, also in seawater.
Total Chlorine	T1	Membrane-covered, amperometric 3-electrode system. For the measurement of total chlorine with greatly reduced pH dependence.
	T1S	Membrane-covered, amperometric 3-electrode system. For the measurement of total chlorine with greatly reduced pH dependence. Suitable for seawater.
Absence of Chlorine	ZC	Checks for the absence of chlorine in drinking water in order to protect equipment; max. operating time in chlorine-free water up to 4 weeks.
Bromine	B1	Detects free bromine as hypobromous acid and BCDMH. Also available for seawater.
Chlorine Dioxide	D1	Membrane-covered, amperometric, 2-electrode measuring system.
	D2	Membrane-covered, amperometric, 2-electrode measuring system. Suitable for seawater. Available for high range measurement.
	D3	Sensor for the measurement of chlorine dioxide with bare electrodes (i.e. no membrane). Available with cleaning device.
	D5	Membrane-covered, amperometric, 2-electrode measuring system.





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Disinfectant	Probe	Application
Chlorite	C1	Membrane-covered, amperometric, potentiostatic 3-electrode measuring system.
Ozone	O1	Sensor for the measurement of dissolved ozone in water.
	O4	Sensor for the measurement of dissolved ozone in water with surfactant-resistant membrane.
	O5	Sensor for the measurement of dissolved ozone in water with highly surfactant-resistant membrane.
Hydrogen Peroxide	H4	Sensor for the measurement of hydrogen peroxide, with surfactant-resistant membrane.
	H5	Sensor for the measurement of hydrogen peroxide, with surfactant-resistant membrane. For high concentrations.
Peracetic Acid	P1	Sensor for the measurement of peracetic acid $C_2H_4O_3$. Surfactants and conductive acids are tolerated. Extended temperature range.
	P5	Sensor for the measurement of peracetic acid $C_2H_4O_3$. Surfactants and conductive acids are tolerated.
	PE4	Sensor for the measurement of peracetic acid $C_2H_4O_3$. Sulphuric and nitric acid up to 1% conc. are tolerated.

NOTES:

1. Some disinfectant sensors are more suitable than others depending on application conditions. For assistance in selecting which sensor is right for your application, please consult with Hydro Instruments.
2. The information provided in this document is for reference only.

