

W100/W600/W900 Contacting Conductivity

General Purpose Contacting Conductivity Sensors (for W100, W900 and W600 Series Controllers ONLY)

These passive sensors are available in a variety of cell constants for use in conductivities up to 300,000 $\mu\text{S}/\text{cm}$ (range varies with solution temperature, see below). Typical applications include RO systems and boiler condensate monitoring. They may be mounted inline or submersion, using either polypropylene (0-100 °C, 100 PSI/6.9 bar) or stainless steel (0-120 °C, 200 PSI/13.8 bar) 1/2" NPT mounting fittings. These inline sensors are constructed from stainless steel and PTFE with EPR o-rings.



Temperature °C	0	10	15	20	25	30	35	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
Range Multiplier %	181.3	139.9	124.2	111.1	100.0	90.6	82.5	75.5	64.3	55.6	48.9	43.5	39.2	35.7	32.8	30.4	28.5	26.9	25.5	24.4	23.6	22.9

Note: Conductivity ranges above apply at 25°C. At higher temperatures, the range is reduced per the range multiplier chart.

Specifications and Ordering Information

Applications:	Cooling Tower	Boiler	Condensate / General	General
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	COMPATIBLE CONTROLLERS	P/N	Description	Cond Range¹	Temp Range	Pressure Rating	Materials	Process Connections	Cable Length (Max 250 ft)	Cell Constant	Temp. Element	
W600	W900	WCTW1 and WCT6	191646-03	Sensor, Contacting Conductivity, Tower, Graphite	0-30 mS	32-140°F†	0-150 PSI†	PP, Graphite	1" NPTM submersion, 3/4" NPTF inline	3 ft	1.0	Thermistor, 10K
			191646-20							20 ft		
		191693-10	Sensor, Contacting Conductivity, Tower, High Pressure	0-30 mS	32-140°F	0-300 PSI	316SS, PEEK	3/4" NPTM	10 ft	1.0	Thermistor, 10K	
		191647-03	Sensor, Contacting Conductivity, Tower, 316 SS Electrodes	0-30 mS	32-140°F†	0-150 PSI†	PP, 316SS	1" NPTM submersion, 3/4" NPTF inline	3 ft	1.0	Thermistor, 10K	
	191647-20	20 ft										
	WCT4/WDT4	190986-05	Sensor, Contacting Conductivity, Tower, Graphite	0-30 mS	32-140°F†	0-150 PSI†	PP, Graphite	1" NPTM submersion, 3/4" NPTF inline	5 ft	1.0	Thermistor, 10K	
		190986							20 ft			
		191097-05	Sensor, Contacting Conductivity, Tower, 316 SS Electrodes	0-30 mS	32-140°F†	0-150 PSI†	PP, 316SS	1" NPTM submersion, 3/4" NPTF inline	5 ft	1.0	Thermistor, 10K	
		191097							20 ft			
	WEBMASTER	* 103061	Sensor, Contacting Conductivity, Tower, High Pressure	0-30 mS	32-140°F	0-300 PSI	316SS, PEEK	3/4" NPTM	6 ft	1.0	Thermistor, 10K	
		190984-05	Sensor, Contacting Conductivity, Tower, Graphite, Active	0-30 mS	32-140°F†	0-150 PSI†	PP, Graphite	1" NPTM submersion, 3/4" NPTF inline	5 ft	1.0	Thermistor, 10K	
		190984							20 ft			
		191091	Sensor, Contacting Conductivity, Tower, High Pressure, Active, w/J-Box	0-30 mS	32-140°F	0-300 PSI	316SS, PEEK	3/4" NPTM	N/A	1.0	Thermistor, 10K	
		191096-05	Sensor, Contacting Conductivity, Tower, 316SS Electrode, Active	0-30 mS	32-140°F†	0-150 PSI†	PP, 316SS	1" NPTM submersion, 3/4" NPTF inline	5 ft	1.0	Thermistor, 10K	
		191096							20 ft			
	191087	Sensor, Contacting Conductivity, Boiler, ATC, Active, w/J-Box	0-30 mS	32-401°F	0-250 PSI	316SS, PEEK	3/4" NPTM	N/A	1.0	RTD, PT1000		
WBL4	* 190768	Sensor, Contacting Conductivity, Boiler, ATC	0-30 mS	32-401°F	0-250 PSI	316SS, PEEK	3/4" NPTM	6 inches	1.0	RTD, PT1000		
	190762	Sensor, Contacting Conductivity, Boiler, ATC, w/J-Box	0-30 mS	32-401°F	0-250 PSI	316SS, PEEK	3/4" NPTM	N/A	1.0	RTD, PT1000		
	190762-NT	Sensor, Contacting Conductivity, Boiler, No ATC, w/J-Box	0-30 mS	32-401°F	0-250 PSI	316SS, PEEK	3/4" NPTM	N/A	1.0	N/A		
	* 103262	Sensor, Contacting Conductivity, Boiler, No ATC	0-30 mS	32-401°F	0-250 PSI	316SS, PEEK	3/4" NPTM	6 inches	1.0	N/A		
W900	W600	WBLW1	191694	Sensor, Contacting Conductivity, Boiler, ATC	0-30 mS	32-401°F	0-250 PSI	316SS, PEEK	3/4" NPTM	6 inches	1.0	RTD, PT1000
			191695	Sensor, Contacting Conductivity, Boiler, No ATC	0-30 mS	32-401°F	0-250 PSI	316SS, PEEK	3/4" NPTM	6 inches	1.0	N/A
			191696	Sensor, Contacting Conductivity, Boiler, ATC	0-300 mS	32-401°F	0-250 PSI	316SS, PEEK	3/4" NPTM	6 inches	10	RTD, PT1000
W600	W900	WCNWJ/ WBLW1	103904-10	Sensor, Contacting Conductivity	0-3 mS	32-212°F	0-100 PSI	316SS, PTFE	1/2" NPTM	10 ft	0.1	RTD, PT1000
				SS Fitting		32-248°F	0-200 PSI					
		WCNW1	103903-10	Sensor, Contacting Conductivity	0-0.3 mS	32-212°F	0-100 PSI	316SS, PTFE	1/2" NPTM	10 ft	0.01	RTD, PT1000
				SS Fitting		32-248°F	0-200 PSI					
		WCNW1	103905-10	Sensor, Contacting Conductivity	0-30 mS	32-212°F	0-100 PSI	316SS, PTFE	1/2" NPTM	10 ft	1.0	RTD, PT1000
				SS Fitting		32-248°F	0-200 PSI					
		WCNW1	103906-10	Sensor, Contacting Conductivity	0-300 mS	32-212°F	0-100 PSI	316SS, PTFE	1/2" NPTM	10 ft	10.0	RTD, PT1000
				SS Fitting		32-248°F	0-200 PSI					

* Also compatible with WebMaster w/Preamp

Note 1: 1 mS = 1000 μS

+ See graph on page 4