



WATER

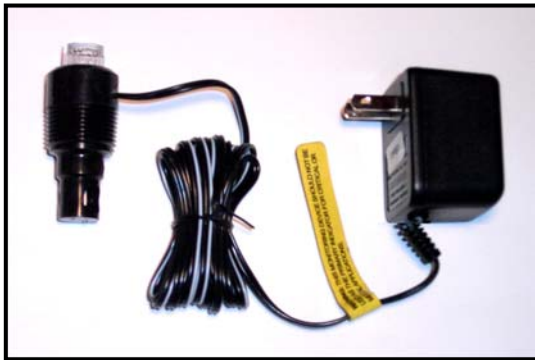
“a better solution..”

Water Quality Monitoring Red/Green QC Lights

Contrary to popular wisdom, water doesn't conduct electricity very well. The lower the dissolved solid content (TDS), the greater its resistance to the flow of electricity. (Deionized water in its purest state has a resistance of 18.3 million ohms per cc.) In the water business we commonly use electrical resistance to describe the purity of deionized water. But whether the measure of purity indicated by a meter is in ppm, microsiemens or ohms, it still derives from passing a small current through the water and measuring its resistance.

Red/Green Water Quality Indicator Lights

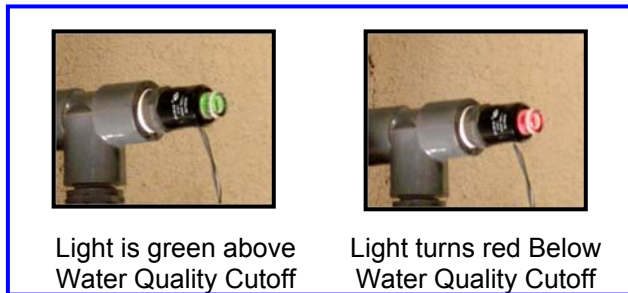
The **Red/Green Water quality indicator lights** supplied by Cal Water measure the electrical resistance in the deionized water being tested. While that resistance is above a preset level, the green LED stays on. When the resistance of the water drops below that level, a red LED is turned on instead.



12 VDC Red-Green Water Quality Light

These simple lights come in a wide range of preset values and are standard equipment with all Cal Water service deionizer systems. They are an effective and inexpensive way to monitor all but the highest quality deionized water. The modern **Red/Green** indicator light is both accurate and intuitive in operation, as opposed to the confusing old on/off neon light where on indicated good while off meant bad.

Cal Water QC lights are not temperature compensated, but since most city water stays between 65 and 70 F, the additional cost of temperature compensation is not justified.



Light is green above Water Quality Cutoff

Light turns red Below Water Quality Cutoff

QC Light Values (Resistivity)	Microsiemens (Micromhos)	Parts per million @ 25 C
2 Megohm	0.5	0.25
1 Megohm	1	0.5
500 K Ohms	2	1
200 K Ohms	5	2.5
50 K Ohms	20	10
20 K Ohms	50	25
10 K Ohms	100	50
5 K Ohms	200	100

Warranty: A Red/Green Water quality indicator light is provided with every service deionizer system as a part of the service. If the QC light fails for any reason, other than misuse or abuse, it will be replaced at no charge to the customer. Warranties are specifically limited to the repair or replacement of the equipment only.

Cal-Water has been selling, installing and servicing water purification equipment since **1946**.

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Los Angeles County (323) 663-8335
San Diego County (619) 457-8411



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WATER QUALITY CONVERSION CHART

Resistivity Ohms/cm <u>@ 25 C</u>	Conductivity Microseimens (Micromhos/cm.) <u>@ 25 C</u>	Dissolved Solids (as CaCO ₃)			Maximum Possible pH	Minimum Possible pH
		ppm	ppb	GPG		
18,000,000	0.056	0.028	28		7.8	6.2
16,000,000	0.063	0.031	31		7.9	6.1
14,000,000	0.071	0.036	36		7.9	6.1
12,000,000	0.083	0.042	42		8.0	6.0
10,000,000	0.100	0.050	50		8.1	5.9
8,000,000	0.125	0.063	63		8.2	5.8
6,000,000	0.17	0.083	83		8.3	5.7
5,000,000	0.20	0.100	100		8.4	5.6
4,000,000	0.25	0.125	125		8.5	5.5
3,000,000	0.33	0.17	167		8.6	5.4
2,000,000	0.5	0.25	250		8.8	5.2
1,000,000	1	0.5	500		9.1	4.9
500,000	2	1	1000		9.4	4.6
250,000	4	2		0.1	9.7	4.3
166,667	6	3		0.2	9.9	4.1
125,000	8	4		0.2	10.0	4.0
100,000	10	5		0.3	10.1	3.9
83,333	12	6		0.4	10.2	3.8
71,429	14	7		0.4	10.2	3.8
62,500	16	8		0.5	10.3	3.7
55,556	18	9		0.5	10.4	3.6
50,000	20	10		0.6	10.4	3.6
45,455	22	11		0.6	10.4	3.6
41,667	24	12		0.7	10.5	3.5
38,462	26	13		0.8	10.5	3.5
35,714	28	14		0.8	10.5	3.5
33,333	30	15		0.9	10.6	3.4
25,000	40	20		1.2	10.7	3.3
20,000	50	25		1.5	10.8	3.2
13,333	75	38		2.2	11.0	3.0
6,667	150	75		4.4	11.3	2.7
4,000	250	125		7	11.5	2.5
2,500	400	200		12	11.7	2.3
2,000	500	250		15	11.8	2.2
1,429	700	350		20	12.0	2.0
1,000	1000	500		29	12.1	1.9
667	1500	750		44	12.3	1.7
500	2000	1000		58	12.4	1.6
400	2500	1250		73	12.5	1.5