

AQUALERT 6051 TOTAL HARDNESS ANALYZER

Introducing the first of Waltron's new AQUALERT line, the 6051 Total Hardness Analyzer. Offering you the best in simple design, efficient operation, and low cost.

Waltron's 6051 Total Hardness Analyzer uses automatic titrimetric technology to detect hardness levels in water as calcium carbonate (CaCO_3). Enjoy a straightforward and intuitive operator interface as well as quick and easy maintenance. Automate your hardness measuring system for affordable mistake-proof reliability and greatly enhanced measurement resolution.



FEATURES

Easy to use fully Automatic operation

Wide-Range analysis

Hassle-free maintenance

Long-lasting reagent

Automatic graphical display of last 100 results

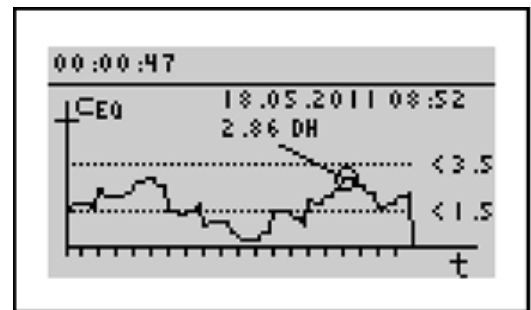
2 Relay outputs, 4-20mA, and removable SD card

1 Input **Signal** (Stop/Start Analysis, water meter, flowmeter)

No calibration necessary

Accurate and reliable results

Graphs your last 100 results



See reverse side for specifications.

AQUALERT 6051 TOTAL HARDNESS ANALYZER | GENERAL SPECIFICATIONS

PERFORMANCE

Measuring Ranges	0.22 - 534 PPM as CaCO ₃ (0.012 - 30 °dH / 0.022 - 54 °f) See below table
Accuracy	+/- 5% of the measuring range
Repeatability	+/- 2.5% of the measuring range
Reagent Consumption	Approx. one 500mL bottle / 3 months depending on hardness of sample
Cycle Time	Approx. 3 min depending on hardness of sample
User Interface	3" LCD with 8 button graphic overlay
Alarms	Threshold Alarm 1, Threshold Alarm 2, Unit Error, Analysis/Cooler/Pump, Low Reagent
2 Relay Output	Max 250 V AC / V DC 4A; potential free NC/NO
Analog Output	0/4 - 20 mA for measured signal, optional CAN- interface
Data Storage	Extract last 100 readings via removable SD Card
Input	1 signal (Cancel Error; Analysis start, water meter, flow monitor, turbine)
Power	85-305 VAC (47-440 Hz)

OPERATING CONDITIONS

Sample Temperature	41 - 104 °F (5 - 40 °C)
Ambient Temperature	50 - 113 °F (10 - 45 °C)
Humidity	20 - 90 % RF (without ice or condensation)
Sample Pressure	0.5 - 5 bar (recommended 1 - 2 bar)
Sample Condition	Clear, colorless, free of solid particles, free of gas bubbles
Sample Interferences	pH 4-10; Iron <3ppm; Copper < 0.2ppm; Aluminum <0.1ppm; Manganese < 0.2ppm; Acid Capacity KS4.3 < 5mmol/L

MECHANICAL

Construction	High Strength ABS, stainless steel, PVC
Dimensions	11.8 x 15.0 x 4.7" (300 x 380 x 120mm) with case
Weight	8.4 lbs (3.8 kg)

MEASURING RANGES

Reagent	PPM as CaCO ₃	°dH	°f
500S/500	0.22 - 2.14	0,012 - 0,12	0,022 - 0,21
500/500	0.36 - 3.56	0,02 - 0,2	0,04 - 0,36
501/500	0.53 - 5.34	0,03 - 0,3	0,05 - 0,54
502/500	1.07 - 10.68	0,06 - 0,6	0,11 - 1,07
503/500	1.60 - 16.02	0,09 - 0,9	0,16 - 1,61
505/500	2.67 - 26.70	0,15 - 1,5	0,27 - 2,68
510/500	5.34 - 53.40	0,3 - 3,0	0,54 - 5,36
520/500	10.68 - 106.8	0,6 - 6,0	1,07 - 10,71
530/500	16.02 - 160.2	0,9 - 9,0	1,61 - 16,07
550/500	26.70 - 267.0	1,5 - 15	2,68 - 26,79
600/500	53.40 - 534.0	3,0 - 30	5,36 - 53,57

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