

## AQUALERT 6051 Hardness Analyzer

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

Waltron's 6051 Hardness Analyzer uses automatic titrimetric technology to detect hardness levels in water as calcium carbonate ( $\text{CaCO}_3$ ). 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

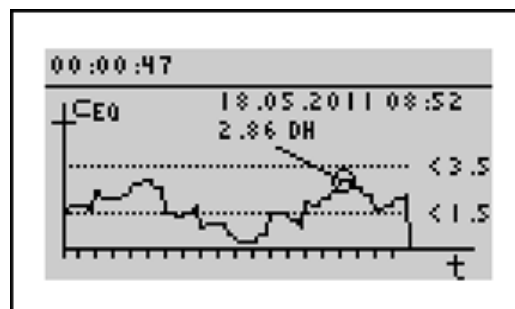
4 Relay outputs, 4-20mA, and removable SD card

2 Inputs (Stop/Start Analysis, water meter, flowmeter)

No calibration necessary

Accurate and reliable results

Graphs your last 100 results



## AQUALERT 6051 HARDNESS ANALYZER | GENERAL SPECIFICATIONS

### PERFORMANCE

<b>Measuring Ranges</b>	0.4 - 536 PPM (0,02 - 30 °dH / 0,04 - 54 °f) See below table
<b>Accuracy</b>	+/- 5% of the measuring range
<b>Repeatability</b>	+/- 2.5% of the measuring range
<b>Reagent Consumption</b>	Approx. one 500mL bottle / 3 months depending on hardness of sample
<b>Cycle Time</b>	Approx. 3 min depending on hardness of sample
<b>User Interface</b>	3" LCD with 8 button graphic overlay
<b>Alarms</b>	Threshold Alarm 1, Threshold Alarm 2, Unit Error, Analysis/Cooler/Pump, Low Reagent
<b>4 Relay Output</b>	Max 250 V AC / V DC 4A; potential free NC/NO
<b>Analog Output</b>	0/4 - 20 mA for measured signals, optional CAN- interface
<b>Data Storage</b>	Extract last 100 readings via removable SD Card
<b>Input</b>	2 signal (Cancel Error; Analysis start, water meter, flow monitor, turbine)
<b>Power</b>	230V (50 - 60Hz) or 24V AC/DC
<b>Options</b>	Open wall mounting IP43; Mounting in case IP54

### OPERATING CONDITIONS

<b>Sample Temperature</b>	41 - 104 °F (5 - 40 °C)
<b>Ambient Temperature</b>	34 - 104 °F (10 - 40 °C)
<b>Humidity</b>	20 - 90 % RF (without ice or condensation)
<b>Sample Pressure</b>	0.5 - 5 bar (recommended 1 - 2 bar)
<b>Sample condition</b>	Clear, colorless, free of solid particles, free of gas bubbles
<b>Sample Interferences</b>	pH 4-10; Iron <3ppm; Copper < 0.2ppm; Aluminum <0.1ppm; Manganese < 0.2ppm; Acid Capacity KS4.3 < 5mmol/L

### MECHANICAL

<b>Construction</b>	High Strength ABS, stainless steel, PVC
<b>Dimensions</b>	11 x 11.8 x 5.5" (280 x 300 x 140mm) without case 14.2 x 11.8 x 7.9" (360 x 300 x 200mm) with case
<b>Weight</b>	4.6 lbs (2.1 kg) without case

MEASURING RANGES			
Reagent	PPM as CaCO <sub>3</sub>	°dH	°f
500S/500	0.4 - 2.1	0,02 - 0,12	0,04 - 0,21
500/500	0.4 - 3.6	0,02 - 0,2	0,04 - 0,36
501/500	0.5 - 5.4	0,03 - 0,3	0,05 - 0,54
502/500	0.1 - 10.7	0,06 - 0,6	0,11 - 1,07
503/500	1.6 - 16	0,09 - 0,9	0,16 - 1,61
505/500	2.7 - 26.8	0,15 - 1,5	0,27 - 2,68
510/500	5.4 - 53.6	0,3 - 3,0	0,54 - 5,36
520/500	10.7 - 107.1	0,6 - 6,0	1,07 - 10,71
530/500	16.1 - 160.7	0,9 - 9,0	1,61 - 16,07
550/500	26.8 - 267.9	1,5 - 15	2,68 - 26,79
600/500	53.6 - 535.7	3,0 - 30	5,36 - 53,57



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