

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 (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

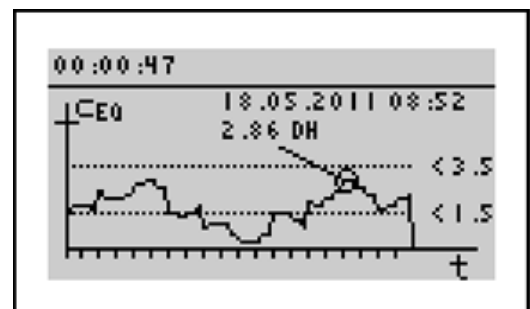
4 Relay outputs, 4-20mA, and removable SD card

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

Measuring Ranges	0.4 - 536 PPM (0,02 - 30 °dH / 0,04 - 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
4 Relay Output	Max 250 V AC / V DC 4A; potential free NC/NO
Analog Output	0/4 - 20 mA for measured signals, optional CAN- interface
Data Storage	Extract last 100 readings via removable SD Card
Input	2 signal (Cancel Error; Analysis start, water meter, flow monitor, turbine)
Power	230V (50 - 60Hz) or 24V AC/DC
Options	Open wall mounting IP43; Mounting in case IP54

OPERATING CONDITIONS

Sample Temperature	41 - 104 °F (5 - 40 °C)
Ambient Temperature	34 - 104 °F (10 - 40 °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 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
Weight	4.6 lbs (2.1 kg) without case

MEASURING RANGES			
Reagent	PPM as CaCO ₃	°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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