

AQUALERT 6051M Hardness Monitor

Introducing Waltron's new AQUALERT 6051M Hardness Monitor. Offering you the best in simple design, efficient operation, and low cost.

Waltron's 6051M Hardness Monitor uses automatic titrimetric technology to detect changes in hardness levels in water for water treatment facilities. Operator interface is very straightforward and intuitive. Maintenance is quick and easy.



FEATURES

Easy to use fully automatic operation

Accurate and reliable results

Maintenance required only 2 - 3 times per year

Long-lasting reagent

Easy set up and installation

2 digital potential free outputs

Digital Input potential free switch

No calibration necessary

AQUALERT 6051M HARDNESS MONITOR | GENERAL SPECIFICATIONS

PERFORMANCE

Limit Value Trip Points	0.4, 0.9, 1.8 ... 53.4, 89, 178 PPM (See below table)
Reagent Consumption	Approx. one 500mL bottle / 2 months depending on hardness of sample
Cycle Time	Approx. 3 min depending on hardness of sample
User Interface	4 button graphic overlay
Alarms	Threshold Alarm 1, Threshold Alarm 2, Unit Error, Analysis/Cooler/Pump, Low Reagent
3 Relay Output	Max 250 V AC / V DC 4A; potential free NC/NO
Input	2 signal (Cancel Error; Analysis start, water meter, flow monitor, turbine)
Power	85 - 264V AC (47 - 63Hz) ; 25 VA Consumption
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; Chlorine (Cl ₂) <0.2ppm

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

LIMIT VALUE TRIP POINTS			
Reagent	PPM as CaCO ₃	°dH	°f
500S/500	0.4	0,02	0,04
500/500	0.9	0,05	0,09
501/500	1.8	0,1	0,18
502/500	3.6	0,2	0,36
503/500	5.3	0,3	0,53
505/500	8.9	0,5	0,89
510/500	17.8	1	1,78
520/500	35.6	2	3,56
530/500	53.4	3	5,34
550/500	89	5	8,9
600/500	178	10	17,8



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