



HEFER SYSTEMS & CONTROLS LTD.

- WATER & WASTE WATER TECHNOLOGIES
- PROCESS ANALYTICAL EQUIPMENT

WHA-3000C ON-LINE HARDNESS ANALYZER

WHA-3000 is an on-line analyzer, built to measure water hardness levels (in ppm) in potable water, drinking water and water treatment applications (Softeners, R.O., etc...).

The measuring system is based on an ISE measurement translated to the water hardness levels reading by the controller.

The reading can be sent through the Isolated 4-20 mA output and 3 SPDT relays gives a dry contact signal.

A 3 way valve provides both soft water and hard water for easy calibration.

Simple one point calibration can be preformed in the field and takes no longer then 2 minutes.

The Analyzer is provided with an IP-65 enclosure with a clear door and 2 lockers. The controller has the option for Key board lock.



Technical Specifications:

PARAMETER	RANGE/UNITS/DESCRIPTION
Controller	
Units/Range	0.1-999 ppm
Resolution	0.01, 0.1, Scale dependable
Accuracy	+/-5% of the reading
Power supply	110/220 +/-10%, 50/60 HZ
Inputs	ISE electrode, Ref. Electrode, temp. sens.
Outputs	2-SPDT, 5A, dry contact
Analog output	Isolated 4-20 mA
Display	LCD, 1x16
Enclosure	IP-65, 350x350x180mm
Electrodes	
ISE	Water hardness, 12mm, epoxy
Reference	Epoxy body, 12mm, D.J. special ceramic
Temp. range	0-40 °C
Sample cell	
Body	Acrylic
Temp. range	0-50 °C
Flow	Adjustment, 10-100 L/H
Inlet/outlet	6mm/12mm
Process	
Pressure	0.5-10 bar
Temp.	0-40 °C

WHA-3000C On line Hardness Analyzer

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