



Online Water Hardness/Alkali Analyzer

Model:AH-800



Online Water hardness / alkali analyzer monitors water total hardness or carbonate hardness and total alkali fully automatically via titration.

Description

This analyzer can measure water total hardness or carbonate hardness and total alkali fully automatically via titration. This instrument is suitable for recognising levels of hardness, quality control of water softening facilities and monitoring of water blending facilities. The instrument allows two different limit values to be defined and checks the water quality by determining the absorption of the sample during titration of the reagent. The configuration of the many applications is supported by a configuration assistant.

Features

- ◇ Reliable, exact and fully automatic analysing
- ◇ Simple commissioning with configuration assistant
- ◇ Self calibrating and self monitoring
- ◇ High measuring accuracy
- ◇ Easy maintenance and cleaning.
- ◇ Minimal reagent and water consumption
- ◇ Multi-coloured and multi-lingual graphic display.
- ◇ 0/4-20mA/relay/CAN-interface output

Hardness Reagents & Measurement Ranges

Reagent type	°dH	°F	ppm CaCO ₃	mmol/l
TH5001	0.03-0.3	0.053-0.534	0.534-5.340	0.005-0.053
TH5003	0.09-0.9	0.160-1.602	1.602-16.02	0.016-0.160
TH5010	0.3-3.0	0.534-5.340	5.340-53.40	0.053-0.535
TH5030	0.9-9.0	1.602-16.02	16.02-160.2	0.160-1.602
TH5050	1.5-15	2.67-26.7	26.7-267.0	0.267-2.670
TH5100	3.0-30	5.340-53.40	53.40-534.0	0.535-5.340

Alkali Reagents & Measurement Ranges

Reagents model	Measuring rang
TC5010	5.34~134 ppm
TC5015	8.01~205ppm
TC5020	10.7~267ppm
TC5030	16.0~401ppm

Specifications

Measurement method	Titration method
Water inlet in general	clear, colourless, free of solid particles, without gas bubbles
Measurement range	Hardness : 0.5-534ppm , total alkali:5.34~401ppm
Accuracy	+/- 5%
Repetition	±2.5%
Environmental temp.	5-45°C
Measuring water temp.	5-45°C
Water inlet pressure	ca. 0.5 - 5 bar (max.) (Recommended 1 - 2 bar)
Analysis start	- programmable time intervals (5 - 360 minutes) - external signal - programmable volume intervals
Flush time	programmable flush time (15 - 1800 seconds)
Output	- 4 x potential-free Relays (max. 250 Vac / Vdc; 4A (as potential free output NC/NO)) - 0/4-20mA - CAN interface
Power	90 - 260 Vac (47 - 63Hz)
Power consumption	25 VA (in operation), 3.5 VA (stand by)
Dimensions	300x300x200 mm (WxHxD)
Protection grade	IP65