

Multi-Channel Online Hardness/Alkalinity Analyzer

Flumsys 20HA

The Flumsys 20HA multi-channel controller with PACON 5000 online hardness/alkalinity analyser can automatically monitor 2-6 channels of water samples online and output 2-6 channels of 4-20mA, greatly reducing the customer's purchasing costs.



Measurement parameters

Total Hardness: 0.21 – 534 ppm CaCO₃
Total Alkalinity: 5.34 – 401 ppm CaCO₃

Applications

Boiler feed water and furnace water, softened water, circulating water, process water

Features

- Titrimetric principle for accurate and stable measurements
- Simultaneous display of 2 to 6 channels of measured values
- Automatic linkage with PACON 5000, automatic cleaning, automatic measurement
- Programmable measurement interval (5-360min) and flush time
- Automatic system fault alarm and insufficient water inlet pressure alarm
- Free to open/close channels to avoid disruption of other channels due to channel maintenance or shutdown
- 2-6 isolated 4-20mA outputs (depending on the channel selected)
- RS485 Modbus RTU communication
- Data storage function with support for U-disk export (Excel)



Technical parameter

Measurement method:	Titration colorimetry
Measurement range:	Total hardness : 0.21-534.0 ppm CaCO ₃ (see reagent type) Total alkalinity: 5.34-401.0 ppm CaCO ₃ (see reagent type)
Measurement time:	approx. 3 minutes, depending on the hardness/alkalinity concentration of the water
Accuracy:	+/- 5% of the upper limit of the selected reagent
Repeatability:	+/- 5% of the upper limit value of the selected reagent
Reagent consumption:	approx. 0.05 – 0.5 ml/analysis, depending on the measured concentration
Expiry date of reagent:	2 years from the factory (<25°C, storage in darkness)
Water sample consumption:	approx. 1 L of water per analysis (at 2 bar pressure)
Power supply:	220VAC , 50/60Hz
Protection class:	IP65
Display:	7" backlit touch screen display
Units available:	ppm CaCO ₃ , mmol/l
Output:	2-6 sets of 4-20mA signals/RS485 Modbus RTU communication
Measurement interval:	5-360min settable, default 10min
Rinse time:	settable (15~1800s)
Water quality requirements:	colourless, no suspended matter, no air bubbles; pH: 4 – 10; iron: < 3 ppm; copper: < 0.2 ppm; aluminium: < 0.1 ppm; manganese: < 0.2 ppm
Temperature: ambient	ambient: 5°C – 45°C, water samples: 5°C – 40°C
Humidity:	20 – 90% RF, indoor installation
Pressure:	ca. 0.5 – 5 bar (max.) (1 – 2 bar recommended)
Water inlet/outlet connection:	6 mm OD hose
Dimensions/weight:	380x750x180mm (WxHxD)
Mounting:	Wall mounted

Order Guide

Order No.	Description
33-5520-10	Flumsys 20HA multi-channel online hardness/alkalinity analyser