

Online Water Hardness Analyzer

PACON 4200

The PACON 4200 on-line hardness analyzer is a compact, easy-to-operate and accurate measurement based on the titrimetric colorimetric principle, making it the entry-level choice for water softening systems and boiler room water quality monitoring.



Measurement parameters

Total hardness

Applications

Boiler Water Feed And Furnace Water、Circulating Water、Process Water

Features

- Automatic measurement and automatic cleaning
- Graphic backlit LCD display, English and Chinese menus
- External signal input to control the measurement for externally starting or stopping the analysis
- 4-20mA output (Optional RS485 communication module)
- 2 relay outputs
- Display unit ppm CaCO₃
- Continuous or interval measurement (5-30min)
- Optional SD card data storage (historical data, fault logging)
- Least maintenance workload

Hardness reagent(500ml/bottle)

Order No.	Item no.	ppm CaCO ₃
50-4200-01	TH4201	0.20 - 2.00
50-4200-02	TH4202	0.50 - 5.00
50-4200-03	TH4203	1.50 - 15.0
50-4200-04	TH4204	5.0 - 50.0
50-4200-05	TH4205	15.0 - 150.0
50-4200-06	TH4206	25.0 - 250
50-4200-07	TH4207	50.0 - 500

Order Guide

Order No.	Description
33-4200-00	PACON 4200 Online Hardness Analyzer
33-0485-01	RS485 communication module
33-4200-20	220VAC power adapter, cable length 1.5m
50-4200-10	Spare parts bag of Hardness Including pump head (including pump tube), all seals, stirrups, connection pipe of reagent bottle, Recommended to be replaced once every two years.

Technical parameters

Measuring range:	0.20 - 500ppm CaCO ₃ (see reagent types)
Measuring time:	approx. 3 minutes, depending on water hardness and set rinsing time
Accuracy:	±5% of the upper limit value of the selected reagent
Repeatability:	±5% of the upper limit value of the selected reagent
Analysis cycle:	continuous measurement / interval measurement (5-30min) external start signal
Rinse time:	5 - 1800S (default 120s)
Water consumption:	approx. 1 - 2L/analysis depending on inlet pressure and set rinse time
Display:	Backlit LCD displaying graphic and numerical values
Unit:	ppm CaCO ₃ , mmol/l
Current output:	0/4 - 20mA, Max. 750Ω
Relay outputs:	2 passive relay outputs NC, 30VDC 1A
Inputs:	External switching signal to initiate analysis/flow sensor

Basic parameters

Measuring principle:	titration colorimetric method
Ambient temperature:	5 - 45°C
Temperature of water sample:	5 - 40°C
Water pressure:	0.5 - 5bar, recommended 1-2bar
Water quality requirements:	colorless, no suspended solids, no bubbles pH 4 - 10.5, iron: <3ppm, copper: <0.1ppm, manganese: <0.2ppm
Inlet/outlet connection:	1/4" OD hose
Humidity:	20 - 90% RH, indoor Wall installation
Power supply:	24VDC, 25W (Optional 220VAC power adapter available)
Dimensions/Weight:	250×360×110mm, ca. 2.5Kg (including outer case housing)
Protection rating:	IP54