

# 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 CaCO<sub>3</sub>
- 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 <sub>3</sub>
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 <sub>3</sub> (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 <sub>3</sub> , 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