

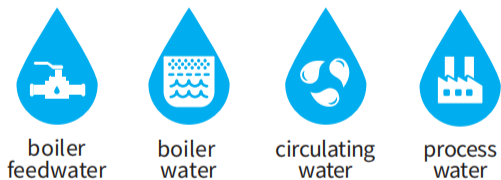
Online Hardness Analyzer

PACON 4200

Parameters

Total hardness

Applications



Technical parameters

- Measuring range:** 0.20 - 500ppm CaCO₃ (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 CaCO₃
- 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

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.



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.

- 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