

# Online Iron Ion Analyser

## PACON 3400

### Measurement parameters

Iron ions (divalent iron + trivalent iron)

### Applications



boiler feedwater



Drinking Water



Iron removal Process

### Technical parameter

**Measurement method:** Colourimetric method  
**Measuring range:** low range: 0.01-0.5mg/L  
 High range: 0.2-6.0mg/L  
**Accuracy:** ± 10%  
**Repeatability:** ± 5%  
**Reagent consumption:** ca. 0.5 ml/analysis  
**Expiry date of reagent:** 1 year (<25°C, storage in shade)  
**Water consumption:** approx. 2 L of water per analysis (at 2 bar pressure)  
**Power supply:** 85 - 265 VAC, 47-63Hz  
**Power consumption:** 25VA (operating), 3.5VA (standby)  
**Protection class:** IP65  
**Display:** Graphic backlit LCD display  
**Measurement units:** mg/L  
**Outputs:** 1. 4 sets of programmable relay outputs (max. 250 V, 4 A)  
 2. 1 group of 0 / 4 - 20 mA signals, max. 750 Ω  
 3. RS485 Modbus RTU communication  
**Inputs:** 1. IN1 input (start analysis / flow control switch / water meter)  
 2. IN2 input (reset device)  
**Analysis period:** Time interval measurement (10~360min)/external signal/flow signal  
**Flushing time:** settable (15~1800s)  
**Water quality requirements:** colourless, no suspended matter, no air bubbles  
**Temperature: ambient:** 5°C - 45°C, water sample: 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:** 300x300x200mm (WxHxD), ca. 4Kg  
**Mounting:** Wall mounted



PACON 3400 is a compact, easy-to-operate and accurate on-line iron ion analyser from JENSPRIMA that measures the concentration of dissolved iron (divalent and trivalent iron) in water for controlled removal of iron ions. Using the colorimetric principle, it is very easy to switch between the LRS (0.01-0.5 mg/L) and HRS (0.2-6.0 mg/L) measurement ranges at any time by using different coloured LED light sources and selecting reagents. Low-maintenance design for long periods of continuous operation. Standard 0/4-20mA and RS485 Modbus outputs for easy integration into your existing control system.

- Based on ISO 6332 measurement method (colorimetric method)
- Automatic on-line monitoring, only one reagent required
- Special material measuring tank, condensation will not adhere to the optics
- Automatic zero point adjustment before each measurement to ensure measurement stability
- 4-20mA/RS485 Modbus outputs
- 4 programmable relay outputs
- External signal input function (can be linked with external devices)
- Compact design for easy installation
- Low maintenance and low reagent consumption



### Order Guide

Order No.	Description
33-3400-00	PACON 3400 Online Total Iron Analyser
50-3400-01	FE3401 Low range Iron ion reagents: 0.01~0.5mg/L
50-3400-02	FE3402 High range Iron ion reagents: 0.2~6mg/L
50-5000-10	Spare Parts Kit Including pump head (including pump tube), all seals, stirrups, connection pipe of reagent bottle, recommend to exchange every year.

