Boiler Water Quality Online Monitoring system

Flumsys 30MT

Flumsys 30MT Boiler water quality online monitoring system In recent years, maximising the reduction of operating costs for all types of steam boilers has been an important step in improving the economic and environmental performance of businesses, against the backdrop of a global shortage of resources and the promotion of low carbon energy efficiency. In any steam boiler facility, online monitoring of the boiler feedwater or furnace water is an important step in reducing energy costs. In accordance with the Industrial Boiler Water Quality Standard, JENSPRIMA has launched the Flumsys 30MT boiler water quality monitoring system based on the company's speciality products: the online hardness analyser and the online alkalinity analyser, which allow the user to choose the measurement parameters to be measured according to site requirements.

Measurement parameters

Total hardness: 0.21-534 ppm (Dilution unit can be added)

Total alkalinity: 0.107-41.0 mmol/l Phenolphthalein alkalinity 0.8-20.0 mmol/l

Iron ions: 0.001-0.5ppm/0.2-6.0ppm

pH: 0-14pH
 Conductivity: 0-2000μS/cm
 Dissolved oxygen: 0-200μg/L
 Turbidity: 0-100NTU
 Chlorine ion: 2-20000ppm
 TDS: 0-99900ppm

The above parameters can be freely integrated and combined

Applications

Water softening Boiler water Recycled water Desalinated water

Solutions

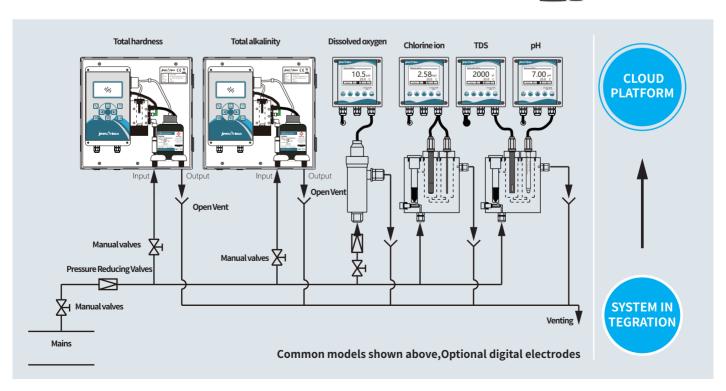
According to the national standard GB/1576, Jensprima can provide the following two boiler water quality monitoring solutions:

- 1. Controller + sensor integration, optional wireless transmission module + cloud APP
- 2. Digital sensor integration + 7" touch screen display, optional wireless transmission module + cloud app



Multi-Parameter

Analyzer



Measurement range

Total Hardness Total Alkalinity	Measurement principle: Measurement range: Resolution: Accurate: Response time:	: Colorimetric Titration Hardness: 0.21-534ppm, Alkalinity: 5.34-401ppm (Depending on the reagent selected) 0.01/0.1/1ppm ±5%per cent of the maximum value of the selected reagent approx. 3 minutes, depending on the measured concentration						
Iron ion	Measurement principle: Measurement range: Resolution: Accurate: Response time:	Colorimetry 0.01-0.5mg/L, 0.01/0.1mg/L ±10%f.s. approx. 7min	2-6.0mg/L					
Turbidity	Measurement principle: Measurement range: Resolution: Accurate: Response time:	0-5/0-100NTU 0.0001/0.001NTU		0 NTU),±5%of reading				
рН	Measurement principle: Measurement range: Resolution: Accurate: Response time:	Glass electrode 0-14pH 0.01pH ±0.01pH ≤30s						
Conductivity TDS	Measurement principle: Measurement range: Resolution: Accurate: Response time: Measurement principle:	0-2000uS/cm 0-99900ppm 0.1uS/cm,1ppm ±1%f.s. ≤30s	Technical parameter Power supply: Digital output: Wireless transmission: Display:	220VAC, 50/60Hz RS485 Modbus RTU optional wireless transmission module + cloud platform 7-inch LCD touch screen with LED backlit display				
Dissolved Oxygen	Measurement range:	0-200μg/L 0.1ug/L ±1%f.s. ≤30s	Data storage: Storage interval: Dimension: Protection grade: Weight:	can query historical data, support U disk export 1-3600s, default 10s Conventional 380x740x180mm, according to measurement parameters IP65 approx. 15Kg				
Chloride ion	Measurement principle: Measurement range: Resolution: Accurate: Response time:	ion selective electrode 2-20000ppm 0.1/1ppm ±5%f.s. ≤30s	Inlet pressure: Flow rate: Ambient temperature: Temperature of water sample Inlet/Outlet Connection:	1-2bar (pressure is too high, we recommend adding a pressure reducing valve) 300-500ml/min 0-50°C				

Order Guide

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