T9210Fe

Online Iron Analyzer

T9210Fe Online Iron Analyzer - External View

1. Product Overview:

This product adopts spectrophotometric measurement. Under certain acidity conditions, the ferrous ions in the sample react with the indicator to generate a red complex. The analyzer detects the color change and converts it into iron values. The amount of colored complex generated is proportional to the iron content.

2. Product Principle:

2.1 Instrument Features:

Ø Uses photometric medicine addition, enables precise metering;

Ø Cold light source spectral measurement, extends light source life;

Ø Automatically adjusts light source intensity, maintains measurement accuracy after light source decay;

Ø Automatically controls reaction temperature, constant temperature measurement and calibration;

Ø Large capacity memory, saves 5 years of measurement data;

Ø 7-inch touch color LCD, more intuitive operation and display;

Ø Single channel of isolated current output, configurable to any channel, any range or PID;

Ø Single channel of relay output, can be configured for over-limit alarm, no-sample alarm or system failure alarm;

Ø RS485 interface, enables remote data monitoring;

Ø Query curves and measurement alarms for any time period.

3. Technical Parameters:

No.	Name	Technical Specifications
1	Application Range	This method is suitable for wastewater with total iron in the range of 0~5mg/L.
2	Test Methods	Spectrophotometric
3	Measuring range	0~5mg/L
4	Lower limit of Detection	0.02
5	Resolution	0.001
6	Accuracy	±10% or ±0.02mg/L(Take the bigger value)
7	Repeatability	10% or 0.02mg/L(Take the larger value)
8	Zero Drift	±0.02mg/L
9	Span Drift	±10%
10	Measurement cycle	Minimum 20 minutes. According to the actual water sample, the digestion time can be set from 5 to120 minutes.
11	Sampling period	Time interval (adjustable), integral hour or trigger measurement mode can be set.
12	Calibration cycle	Automatic calibration (1-99 days adjustable), according to actual water samples, manual

		calibration can be set.
13	Maintenance cycle	Maintenance interval is more than one month, about 30 minutes each time.
14	Human-machine operation	Touch screen display and instruction input.
15	Self checking protection	Working status is self-diagnostic, abnormal or power failure will not lose data. Automatically eliminates residual reactants and resumes work after abnormal reset or power failure.
16	Data storage	No less than half a year data storage
17	Input interface	Switch quantity
18	Output interface	Two RS485 digital output, One 4-20mA analog output
19	Working Conditions	Working indoors; temperature 5-28℃; relative humidity≤90% (no condensation,no dew)
20	Power Supply Consumption	AC230±10%V, 50~60Hz, 5A
21	Dimensions	355×400×600(mm)