

IRON FERROZINE COLORIMETRIC ANALYZER

Compact online analyzer for measurement of iron in water

APPLICATION FIELDS

- Drinking water
- Iron removal processes and residual coagulant monitoring
- Industrial wastewater
- Measurement of effluents and wastewaters
- Boiler feed water
- Corrosion control
- Cooling water
- Surface water

ADVANTAGES / FEATURES

• Different compartments

To ensure complete separation between the electronics (upper case) and the wet part (lower case).

• Low reagents consumption

Minimum operating cost by small reagent consumption, only 2.5 L (0.66 US.gal) for the 16 mm cell / 5 L (1.32 US.gal) for the 26 mm cell of each reagent every 60 days with 15 minute analysis frequency. Very long shelf life of the reagent.

• Automatic calibration / validation / cleaning

Validation, cleaning and calibration are standard features which significantly reduce downtime and operator intervention ensuring the most accurate results are obtained. Free selectable validation, cleaning and calibration intervals.

• Wide measuring range

The determination ranges of the Iron Analyzer vary from trace μ g/L to 10 mg/L using internal dilution module.



• Color touchscreen user interface

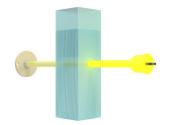
The colorimeter is equipped with a graphic touchscreen interface showing measured values and status information. Easy access to menus and functions. Integrated datalogger with USB download.

• Factory tested, ready for installation and operation

Just connect the power, sample, and reagent lines and the analyzer is fully operational.

• Measurement principle

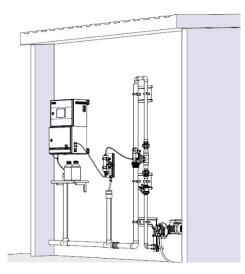
In an acid buffered solution, ferrozine and iron react to form a purple colored complex measured at 572 nm. The absorption intensity is proportional to the iron concentration in the sample.



TECHNICAL SPECIFICATIONS

INSTALLATION EXAMPLE

Measured parameterFe2+, Fe3+, Total Dissolved Iron (ppb, pp mg/I).Measuring principleDifferential colorimetric absorbance.	m,
Differential colorimetric absorbance	
Measuring range 2 to 250 ppb (26 mm cell) 9 to 1000 ppb (16 mm cell) up to 20 mg/L with internal dilution.	
Reproducibility ± 1 ppb or ± 5%, whichever is greater (2 mm cell) ± 5 ppb or ± 5%, whichever is greater (2 mm cell)	
Analysis Freely programmable, batch near- Frequency continuous analysis.	
Cycle time 8-10 minutes, including conditioning be analysis cycle and rinsing after measured	
Reaction cell Temperature heated	
Sample Pressure-free vessel Temperature: 5 - 50 °C (41 - 122 °F) Flow Rate: 80 to 500 mL/min Connection: 6 mm (¼-in.)	
Drain Pressure-free, atmospheric drain Connection: 12 mm (½-in.)	
N° of streams 1, 2 with integrated switching valve	
Dimensions (H x W x D) 604 x 380 x 242 mm (23.6 x 14.8 x 9.4 i	n)
Weight Approx. 20 Kg (44 lbs)	
Power Supply Voltage: 100 - 240 VAC 50/60 Hz stands 24 VDC (option) Power consumption: max. 80 VA	ard or
Outputs 2 x 4-20 mA outputs for measured data Modbus RTU RS485	3
Alarms 2 SPDT programmable potential free re	elays
Digital Input Remote start/stop, start extra cycle, ski time, emergency stop	p idle
Working Temperature 5 - 45 °C (41 - 113 °F)	
Humidity 10 to 90% RH (indoor use only)	
Installation Wall mount (standard), bench top support or panel mount (options).	oort
Protection Grade IP54	



The analyzer is easily installed in a minimum amount of wall space.

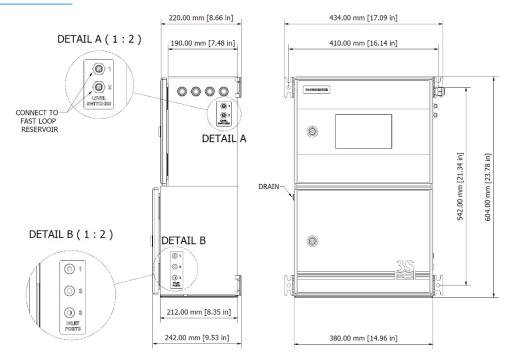
In the picture are included the optional accessories:

- a) A46ERLS000 Fast Loop external reservoir with level switch
 b) A46SF10020 Filtration unit 100 micron 230 VAC (other mesh size and input voltages available)
- c) A46SPP0000 Sampling Pump

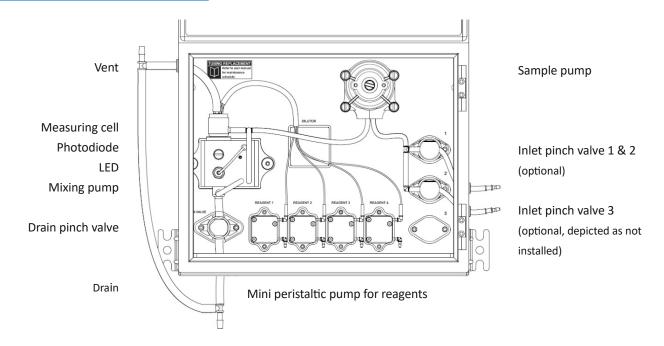
Other accessories, including external dilutors to increase the analyzer range and different kind of sample reservoirs are also available. See our website for more info.



TECHNICAL DRAWING



HYDRAULIC COMPARTMENT VIEW



PRODUCT CODES

CL3-1-572-0-16-FE
CL3-1-572-2-16-FE
CL3-1-572-3-16-FE
CL3-1-572-0-26-FE
CL3-1-572-2-26-FE
CL3-1-572-3-26-FE

Colorimenter Iron Ferrozine, one inlet port, 16 mm cell Colorimenter Iron Ferrozine, two inlet ports, 16 mm cell Colorimenter Iron Ferrozine, three inlet ports, 16 mm cell Colorimenter Iron Ferrozine, one inlet port, 26 mm cell Colorimenter Iron Ferrozine, two inlet ports, 26 mm cell Colorimenter Iron Ferrozine, three inlet ports, 26 mm cell