



# MicroMac C

## Soluble Iron Analyser

PRODUCT DATASHEET

### APPLICATIONS

Potable Water – Final Water  
Intake Protection  
Sewage Treatment – Inlet Monitoring  
Final Effluent  
River Monitoring

### FEATURES

Robust LFA Analysis System  
Low Reagent Consumption  
Automatic Over-range Handling  
Fully Integrated Packages  
Easy to use software interface  
Complete Supply and Install Service

### BENEFITS

Low Overall Ownership Cost  
Improved Effluent Quality  
Reduced Chemical Costs

### ALTERNATIVE PARAMETERS

Total Phosphorus  
Ammonia  
Orthophosphate  
Total Iron  
Aluminium  
Nitrate  
Manganese  
Total Nitrogen

Multi-chemistry analysers are available for up to 4 parameters depending on the combination

### INSTALLTION OPTIONS

Fully Integrated Sample Preparation Package  
Installation and Commissioning Service

The MicroMac C Analyser is a fully featured system designed for reliable and accurate monitoring of a wide range of parameters. For Soluble Iron the analyser can be configured to use a number of the standard Blue Book methods. The standard method is a TPTZ based method which chosen for it's wide application range and reliable nature.

Developed for on-line process analysis the MicroMac C uses the patented Loop Flow Analysis (LFA) technique. The LFA technique is highly flexible and extremely robust. The analyser automatically carries out calibration and cleaning routines to ensure extended periods between manual intervention. The analyser also has a built in sample dilution process to automatically analyse out of range samples.

The current drive to install Phosphate removal plants using Iron based coagulant has created the need to measure Iron in the effluent channel both as a consent monitor and as a guide to setting the optimum dosing level. This monitoring helps prevent overdosing which is costly in both economic and environmental terms.

In potable water treatment Iron is also used as a dosing chemical, again consistent control of the dosing rate is vital for cost management and final water quality. Automated control is readily achieved by interfacing the MicroMac C with the site control system.



Call us on 01726 879800 [www.partech.co.uk](http://www.partech.co.uk)





# MicroMac C

## Soluble Iron Analyser

PRODUCT DATASHEET

### Technical Specification

#### Physical

Mounting

Weight

Dimensions

Operating Temperature

#### Electrical

Power Supply

Outputs

Alarm Signal

Communications

Display

#### Analysis

Range

Detection Limit

Repeatability

Principle

Normal Method

Wavelength

#### Reagents

Reagent 1 P/N 185950

Reagent 2 P/N 185940

Wall mounted, additional environmental protection is required and can be included as part of our package

25 kg

800 x 450 x 300 mm (h x w x d)

10 to 30C

12 VDC, or 115/230 VAC

Typically 4W on standby, 10W during analysis (analyser only)

4-20mA maximum load 400 ohm

1 relay for process alarm and relay for general fault alarm, busy line to indicate that analysis is taking place

RS232 or RS485 available

Full graphical display giving detail of current analyser status, previous results and a plain language configuration menu

from 0-0.1 to 0-5 ppm , other ranges on request

better than 2% of full scale

better than 2% of full scale

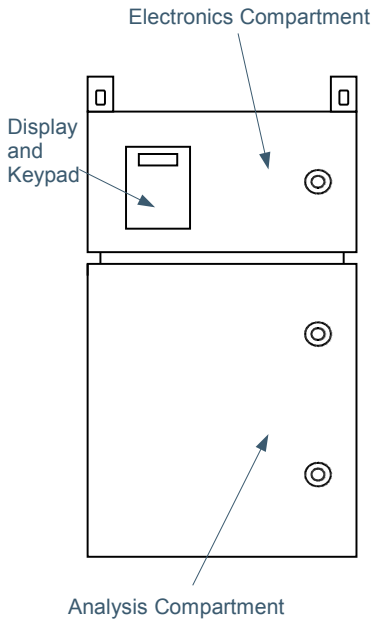
Colorimetric

TPTZ, alternative methods are available to suit other sample matrices  
660 nm

Soluble Iron Reagent 1, Buffer & Reducing Agent for MicroMac C (1 litre)

Soluble Iron Reagent 2, TPTZ Colour for MicroMac (1 litre)

The analyser will also require a calibration solution that will be supplied at a concentration appropriate to the selected range, in some applications a cleaning solution of Sodium Hydroxide is used to extend the service interval. The analyser will also require a supply of dilution water.



Publication No: 221410DS-Iss01

The company reserves the right to alter the specification without prior notice. E&OE

Call us on 01726 879800 [www.partech.co.uk](http://www.partech.co.uk)



Charlestown St Austell Cornwall UK PL25 3NN T:+44(0)1726 879800 F:+(0)1726 879800 E:[info@partech.co.uk](mailto:info@partech.co.uk) [www.partech.co.uk](http://www.partech.co.uk)