



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

INSTALLATION 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.

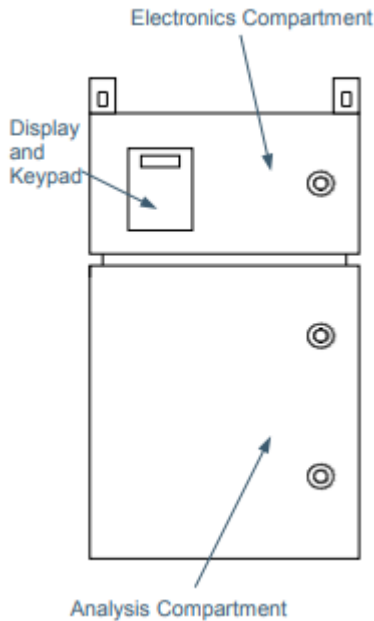
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Technical Specification

Physical

Mounting
Weight
Dimensions
Operating Temperature

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 30°C

Electrical

Power Supply
Typically
Outputs
Alarm Signal

12 VDC, or 115/230 VAC
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

Analysis

Range
Detection Limit
Repeatability
Principle
Normal Method
Wavelength

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

Reagents

Reagent 1	P/N 185950
Reagent 2	P/N 185940

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.

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

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