



MicroMac C

Total Phosphorus Analyser

PRODUCT DATASHEET

APPLICATIONS

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

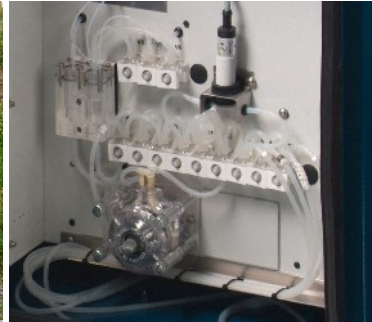
ALTERNATIVE PARAMETERS

Orthophosphate
Ammonia
Soluble Iron
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 Phosphorus the analyser can be configured to use a number of the standard Blue Book methods. The standard method is Molybdenum Blue 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.

Current environmental and regulatory pressures for reducing nutrients in our rivers makes the measurement of Phosphate particularly important. Partech's solution to Phosphorus measurement at the inlet to the treatment system allows fully automatic feed-forward control of the Iron or Aluminium dosing level. Significant savings are made by applying this control method along with improved effluent quality and the prevention of overdosing.

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Technical Specification

Physical

Mounting

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

Weight

25 kg

Dimensions

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

Operating Temperature

10 to 30C

Electrical

Power Supply

12 and 24VDC, or 115/230 VAC

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

Outputs

4-20mA maximum load 400 ohm

Alarm Signal

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

Communications

RS232 or RS485 available

Display

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

Analysis

Range

from 0-0.2 to 0-50 ppm PO₄ as P, other ranges on request

Detection Limit

better than 2% of full scale

Repeatability

better than 2% of full scale

Principle

Colorimetric

Normal Method

Molybdenum Blue, alternative methods are available to suit other sample matrices

Wavelength

660 nm

Reagents

Reagent 1 P/N 180200

Total Phosphorous, Reagent 1, Sulphuric Acid for MicroMac (1 Litre)

Reagent 2 P/N 180210

Total Phosphorous, Reagent 2, Oxidising for MicroMac (1 Litre)

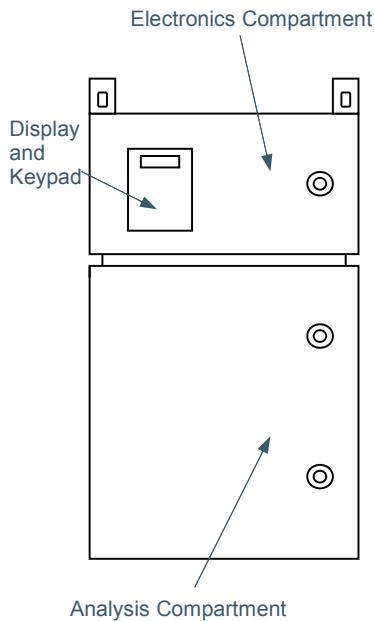
Reagent 3 P/N 180220

Total Phosphorous, Reagent 3, Colour for MicroMac (1 Litre)

Reagent 4 P/N 180230

Total Phosphorous, Reagent 4, Reducing 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: 223243DS-Iss01
The company reserves the right to alter the specification without prior notice. E&OE

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