



# MicroMac C

## Ortho-Phosphate 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

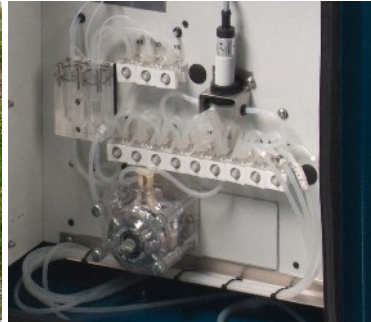
### ALTERNATIVE PARAMETERS

Total Phosphorus  
Ammonia  
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

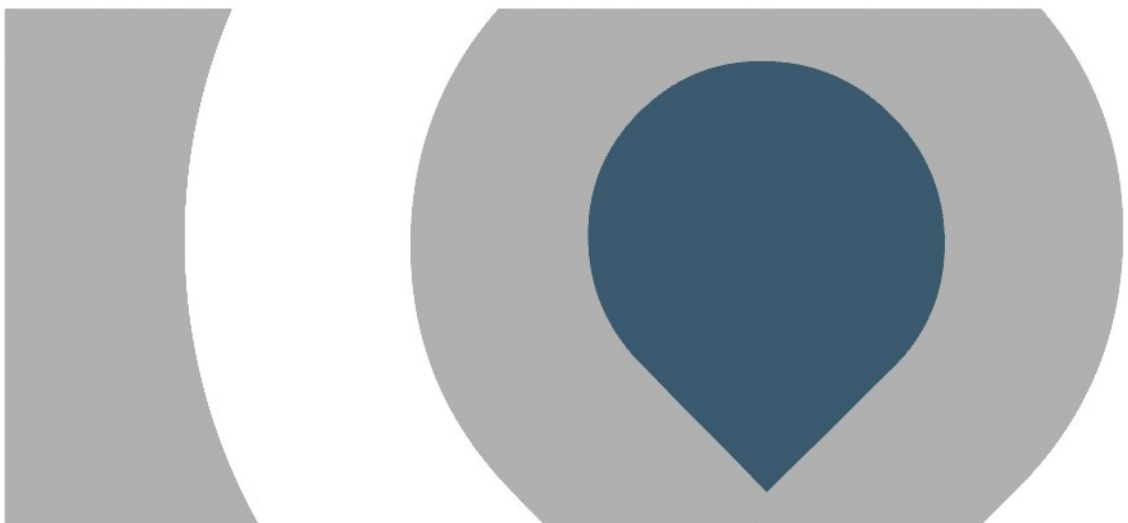
Fully Integrated Sample Preparation Package  
Installation and Commissioning Service



The MicroMac C Analyser is a fully featured system designed for reliable and accurate monitoring of a wide range of parameters. For Phosphate 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 Phosphate 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

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 180650

Reagent 2 P/N 180660

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 0-0.2 to 0-200 ppm PO<sub>4</sub> as P, other ranges on request

better than 2% of full scale

better than 2% of full scale

Colorimetric

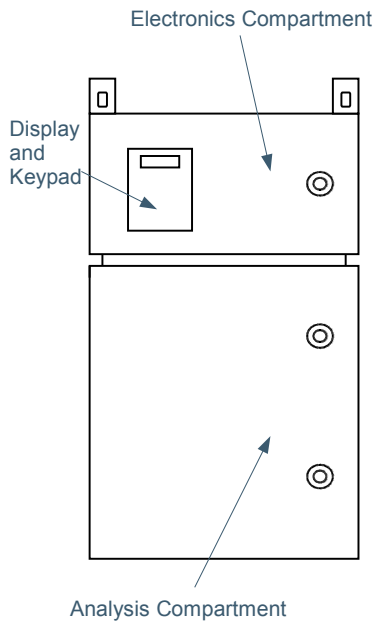
Molybdenum Blue, alternative methods are available to suit other sample matrices

660 nm

Phosphate, Reagent 1, Colour for MicroMac (1 Litre)

Phosphate, Reagent 2, Reduction 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: 221379DS-Iss02

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

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