



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

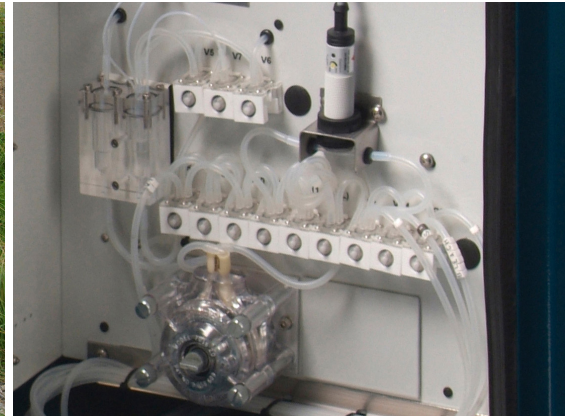
ALTERNATIVE PARAMETERS

Total Phosphorus
Ammonia
Soluble Iron
Total Iron
Aluminium
Nitrate
Manganese
Total Nitrogen

Multi-chemistry analyser 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 Phosphate the analyser can be configured to use a number of 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.

Call us on + 44(0) 1726 879800 www.partech.co.uk



MicroMac C

Ortho Phosphate Analyser

PRODUCT DATASHEET

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

12 VDC, or 115/230 VAC
Typically 4W on standby, 10W during analysis (analyser only)

Outputs
Alarm Signal

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

Communications
Display

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
samples matrices
Wavelength

from 0-0.2 to 0-200 ppm PO₄ 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

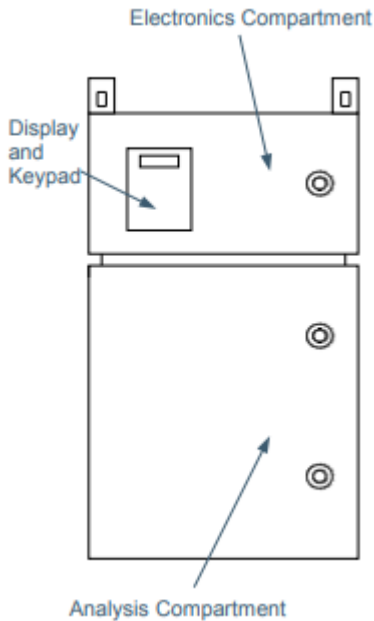
660 nm

Reagents

Reagent 1 P/N 180650
Reagent 2 P/N 180660

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-Iss03

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

Call us on + 44(0) 1726 879800 www.partech.co.uk



Address: Rockhill Business Park, Higher Bugle, St Austell, Cornwall PL26 8RA, UK E: info@partech.co.uk