Micro Mac C

Colorimetric Analyser

PRODUCT DATASHEET

APPLICATIONS

WasteWater
Process Water
Drinking Water
Surface Water
Seawater

MEASUREMENTS

Aluminium
Ammonia
Iron (Soluble and Total)
Manganese
Nickel
Nitrate
Nitrite
Phosphate (Ortho and Total)
TON

FEATURES

Flexible Loop Flow Analysis (LFA)*
Multi-Parameter Options
*Patented by Systea, Italy

INSTALLATION OPTIONS

Fully Intergrated Sample Preparation Package
Installation and Commissioning Service

The MicroMac C is designed to operate in an industrial or treatment works environment with minimal routine intervention and uses, wherever possible, industry standard chemistry methods.

The robust nature of the MicroMac C with it's separate electronic and chemistry compartments (the latter including reagent storage) provides a highly reliable on line analyzer.

The chemistry module employs the patented Loop Flow Analysis System which results in a very flexible analysis system which can incorporate high temperature digestion or heating, UV digestion and temperature controlled end point reactions all utilizing a visible light colorimeter or a fluorimeter.

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Analyser

Measuring Principle	Colorimetric or Fluorimetric
Colorimeter	Dual Beam, Silicon Detector
Fluorimeter	Excitation at 370 nm, emission 420-470 nm
Number of Parameters	1 standard, up to 4 depending on combination
Measurement Frequency	Programmable
Measurement Time	Method Specific
Number of Sample Points	1 standard, up to 6 optional
Sample Requirements	10 to 30 C
Waste	Toxic and Non Toxic fed to separate drain
Reagent Cooler	Optional Pelter Cell

Physical

Mounting	Wall Mounting normally in building or kiosk
Protection Rating	IP55
Weight	25 kg without reagents
Dimensions	800 x 450 x 300 mm (HxWxD)
Environmental Temperature	10 to 30°C

Electrical

Power Supply	12VDC or 115/230 VAC
Power Use	Typically 4 W on standby, 10 W during analysis
Hardware	PC104 industrial standard, intergrated keyboard and display
Communication Port	RS232, RS485, USB
Output Signals	4-20mA per parameter, 400 ohm maximum load
Input Signals	Remote analysis and calibration request
Alarm Signals	1x High Alarm, SPDT, 24 VDC, 0.5A per parameter 1x General Alarm, SPDT, 24 VDC, 0.5A 1x Calibration Alarm, SPDT, 24VDC, 0.5A per parameter
Alarm Messages	On Display

Sample Preparation

Sample Delivery	Sample delivered to sample pot by peristaltic or submersible pump, system designed to suit the sit requirements
Filtration (Typical)	Sewage Treatment Inlet stage: 20 micron Sewage Treatment Final Effluent Stage, 400 micron Potable Water, typically not required Surface Water, 400 micron

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