

SYSTEA S.P.A.

SYSTEA S.P.A. is an Italian company established in 1988 with the objective to develop, manufacture and sell worldwide integrated solutions for analysis and on-line monitoring of complex chemical compounds in:

- Surface water
- Drinking water
- Waste water
- Sea water

Innovative technology, high quality standard and 20 years of experience allow Systea to propose a wide range of products with unique characteristics of sensitivity and flexibility, based on proprietary industrial patents.

A continuous technical support is guaranteed to our Customers by high specialized technical organization; our staff is always available to suggest the right solution.

LABORATORY ANALYZERS

Our laboratory analyzers product range covers most of the needs for automatic and reliable routine analysis of inorganic compounds in water and water extracts, like Ammonia, Nitrate, Nitrite, Orthophosphate, Silicates, Total Nitrogen, Total Phosphorus, Total Dissolved Iron, Chromium, Aluminium, Manganese, Copper, Nickel, Zinc, Alkalinity, Hardness, Sulphate, Residual Chlorine, Chloride, Calcium, Magnesium, Cyanide, Phenols, Boron, Urea, TOC.

Main products are the following:

Easychem Plus: Flow-cell based discrete analyzer

EasyChem Pro: Direct reading discrete analyzer

FlowSys: 3rd generation Continuous Flow Analyzer

ichem: Loop Flow Analysis benchtop analyzer.



Easychem Pro

COLORIMETRIC KITS

We propose a complete and ready to use solution for manual analysis of chemical parameters in water.

Rapid cuvette tests and Systea photometers allow to run complex analysis easily and quickly, keeping unchanged all the performances of manual analysis methods.



Cuvette tests require almost no reagents handling; each kit contains everything is needed to run analysis. More than 50 methods and ranges available.

PORTABLE ANALYZER

μMAC-1000 is an on-line portable analyzer of chemical parameters in water, available either in mono or sequential mutiparametric configuration, providing the highest level of analytical automation and compactness.

μMAC-1000 is the only available high sensitivity multiparametric portable and on-line analyzer using colorimetric approved methods. The analyzer can measure many type of water samples on a wide range of applications, including sea water.





ON-LINE ANALYZERS

Systea develops and manufactures a wide range of on-line analyzers, named **Micromac C**, using well established and standard colorimetric methods for the most important and common applications.

MICROMAC C is a microprocessor controlled colorimetric On Line analyzer specifically designed for industrial and Environmental on-line applications.

The use of the patented technology "Loop Flow Analysis" ensures:

- the highest level of robustness in the electronics, mechanics and hydraulics components
- reliable sequential measurements of up to four chemical compounds in waste, surface and drinking water with the same device.



MULTIPARAMETRIC IN SITU PROBES

Systea is one of the few companies in the world offering a line of in-situ probes to measure nutrients and other chemical compounds in surface and sea water.

NPA probe is available in two versions, NPA Plus and NPA Pro; our exclusive **DPA** probe has been fully developed by the Systea R&D team as an innovative solution to allow automatic measurements of chemical compounds in the oceans down to 4500 m depth, maintaining an high level of accuracy and robustness. NPA and DPA can also analyze up to 4 nutrients, using official colorimetric methods but also fluorimetric detection techniques.



NPA Probes

New innovative chemistries are already available to make easier the management of the on site operations: NH₃ with fluorimetric OPA method and NO₃+NO₂ with UV photoreduction method exclusively licensed to Systea by Ifremer (French Research Institute for Exploitation of the Sea). Other chemical parameters already available are Total Phosphorous, Total Nitrogen (UV Reduction), Total Dissolved Iron and Silicates.

ENVIRONMENTAL MONITORING SYSTEMS

Systea has a wide experience in developing and providing environmental water monitoring systems. The compactness and robustness of our instrumentation, coupled with a low electrical power consumption and a reduced reagents consumption, allow to use our LFA based analyzers on several on-line water monitoring applications, coupled with high quality third party instrumentation. Our water monitoring stations can be completely autonomous from the electrical point of view, because they can be powered by photovoltaic panels. The use of our Web based software package named Zetaced, developed by our sister company Sysmedia, allows the remote control of the stations and the management of the data acquired by dedicated data-loggers, available in two configurations: low-power consumption microcontroller based (Zlog) and industrial PC (Zetastation).



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