MICROMAC ARSENIC*

ON LINE ANALYZER FOR LOW LEVEL DISSOLVED ARSENIC IN WATER

MICROMAC ARSENIC is a microprocessor controlled On Line analyzer specifically designed for automatic Low Level Arsenic monitoring on several types of water matrices.

ü ROBUST AND RELIABLE

Designed for industrial and Environmental On Line applications ensures the highest level of robustness in the electronics, mechanics and hydraulics components. Complete separation between electronics and hydraulics plus a simple and robust LFA* hydraulics allows easy maintenance and long terms reliable operations.

**Micromac Arsenic: Patent Pending*

ü EASY TO INSTALL

The analyzer is delivered after a long and successful series of factory tests ready for installation and setup; it is provided with complete set of spares for start up. To start monitoring is enough to connect reagents, sample line, waste line and power supply.

ü AUTOMATIC CALIBRATION

When the Calibration Time interval expires the analyzer performs a Calibration Cycle, storing and checking the new calibrant O. D. If new O.D. exceeds selected limits, an alarm contacts is closed.

ü MEASURING INTERVAL

User selectable; between two measurements the analyzer remains in stand by mode, without reagents consumption.

ü REMOTE CONTROL

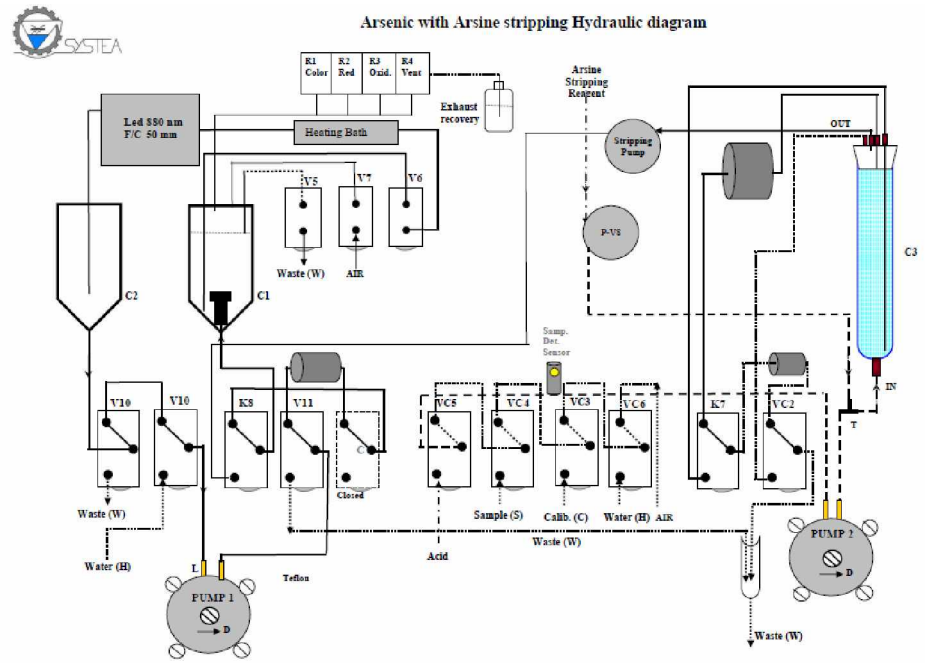
The analyzer can be controlled by remote trough a GSM modem and or connected to a local Datalogger to send data on a Zetaced a Systea Software available on Web Server.

ü FEATURES AND BENEFITS

- Fully automatic operation
- Long autonomy; low maintenance, low operating cost
- Low reagents consumption; short preparation time; low disposable costs
- Easy operation; plug in analyzer, no special training is required
- Electronics and hydraulics completely separated
- Serial interface for local o remote PC connection (option)

Low level Arsenic measuring principle and hydraulic diagram

Arsenic III and V contained in the sample are converted into Arsine that is sparged inside a strong oxidant where is converted to As V.
Arsenic V reacts with Molibdate and Ascorbic acid to form a blue compound measured at 880 nm.



Patent pending

Technical Specifications

MEASURING PRINCIPLE: Arsine generation, Oxidation to As V, colorimetric measure by ammonium molibdate and ascorbic acid
COLORIMETER: dual beam, silicon detector
MEASUREMENT TYPE: cycles
MEASURING INTERVAL: programmable
MEASURING TIME: < 60 minutes
MEASURING RANGE: 0- 20 ppb other ranges available on request
DETECTION LIMIT: better than 2 ppb
REPEATABILITY: better than 1 ppb
OUTPUT SIGNAL: 4-20 mA
INPUT SIGNALS: n. 1 Analysis, n. 1 calibration; digital contacts
ALARMS: n. 1 High Limit, n. 1 General, n. 1 Calibration; potential free contacts
SAMPLE AND WASTE DELIVERY: pressure free;
SAMPLE TEMPERATURE: 80 °C
REAGENTS REPLACEMENT: 3/4 weeks depending on the operating temperature
PROTECTION: IP55
HARDWARE: PC104 industrial standard, Integrated keyboard and graphics display, RS232 option
POWER SUPPLY: 12/24 V DC external power supply included; 10W Standby; 20 W (mean) analysis.
WEIGHT: 33 Kg without reagents;
DIMENSION: 800x450x300 mm (hxwxd)

Subject to change without notice

SYSTEA S.p.A.

HEADQUARTER AND MANUFACTURING FACILTY:
VIA PADUNI, 2A - 03012 ANAGNI (FR) ITALY
TEL: +39 0775-776058 FAX +39 0775-772204
A member of Consorzio NDI

Web Site: http://www.systea.it Email: info@systea.it