

MICROMAC SULFIDE

ON LINE ANALYZER FOR SULFIDE MONITORING IN WATER



MICROMAC SULFIDE is a microprocessor controlled On Line analyzer specifically designed for automatic Sulfide monitoring on several types of waters matrix.

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.

**LFA: Loop Flow Analysis 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 SAMPLE DILUTION

Sample can be analyzed as it is or after automatic dilution. Automatic dilution is factory adjusted for high range applications.

ü MEASURING INTERVAL

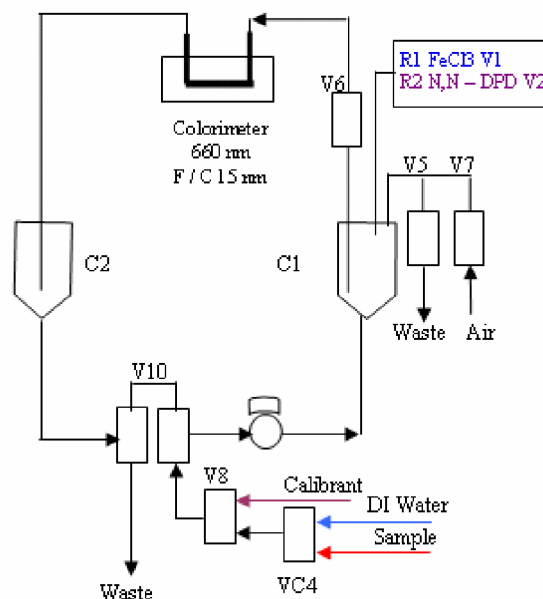
User selectable; between two measurements the analyzer remains in stand by mode, without reagents consumption.

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)

Sulfide measuring principle and hydraulic diagram

In this automated procedure, hydrogen sulfide is determined as methylene blue. The sample is introduced into the analytical stream, where it reacts with N,N-Dimethyl-1,4-phenyldiammonium dichloride and ferric chloride to form methylene blue, which is measured colorimetrically at 660 nm.



Technical Specifications

MEASURING PRINCIPLE: Colorimetric.
COLORIMETER: dual beam, silicon detector
MEASUREMENT TYPE: cyclic
MEASURING INTERVAL: programmable
MEASURING TIME: 15 minutes
MEASURING RANGE: 0-2 / 100 ppm range; other ranges available on request
DETECTION LIMIT: typically better 2% of the full scale, calculated as for EPA p. 136 appendix B
REPEATABILITY: better than 2%
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: 10 °C - 30 °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 V DC external power supply included; 4W standby; 10 W (mean) analysis
WEIGHT: 33 Kg without reagents;
DIMENSION: 800x450x300 mm (hxwx d).

Subject to change without notice



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