

MICROMAC MP2 COD/TOC (UV) - BOD (FLUORIMETRIC)

ON LINE ANALYZER FOR COD/TOC AND BOD MONITORING IN WATER



MICROMAC MP2 COD/BOD is a microprocessor controlled On Line analyzer specifically designed for automatic Total Phosphorous and Ammonia monitoring on several types of water matrix.

✓ 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*

✓ 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 reagent, sample line, waste line and power supply.

✓ AUTOMATIC CALIBRATION

When the Calibration Time expires the analyzer performs a Calibration Cycle, storing and checking the new calibration value. If new O.D/mV. exceeds selected limits, an alarm contacts is activated.

✓ SAMPLE DILUTION

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

✓ MEASURING INTERVAL

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

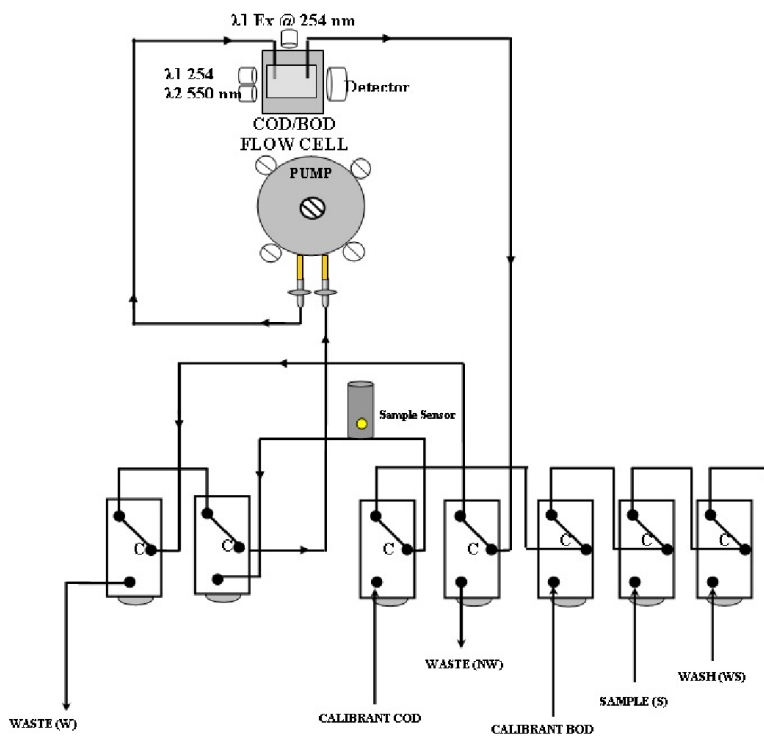
✓ FEATURES AND BENEFITS

- Fully automatic operation
- Long autonomy; low maintenance, low operating cost
- No reagent required, only calibrant and wash solutions
- Easy operation; plug in analyzer, no special training is required
- Electronics and hydraulics completely separated
- Serial interface for local o remote PC connection (option)

COD/TOC and BOD measuring principle and hydraulic diagram

COD UV: SAC direct reading at 254nm, turbidity compensation at 550nm as per DIN 348404-3, correlation with COD by known calibrant, correlation factor to be established/adjusted on site if necessary; this version can measure TOC as alternative to COD

BOD FLUO: direct fluorimetric measure (Tryptophan like), excitation at 250nm and measure at 360nm, correlation with BOD by a known Tryptophan calibrant, correlation factor to be confirmed/adjusted on site



Technical Specifications

MEASURING PRINCIPLE: COD UV as for DIN 348404-3/ BOD Fluorimetric, Tryptophan like

DETECTOR: UV & Fluorimetric

MEASUREMENT TYPE: Sequential

MEASURING INTERVAL: programmable

MEASURING TIME: 10/15 minutes depending on the range

MEASURING RANGE: COD: 0-50/100/200/1000/2000/3000 mg/L; BOD 0-20/50/100/500 mg/L; other ranges available on request

DETECTION LIMIT: typically better 3% of the full scale, calculated as for EPA p. 136 appendix B

REPEATABILITY: better than 3%

OUTPUT SIGNAL: n. 2 set of 4-20 mA **INPUT SIGNALS:** 1 Analysis, n. 1 calibration; digital contacts

ALARMS: n. 2 sets of: 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

CALIBRANT & WASH SOLUTION REPLACEMENT: 3/4 weeks depending on the analysis frequency

PROTECTION: IP55

HARDWARE: PC104 industrial standard, Integrated keyboard and graphics display, RS232 option

POWER SUPPLY: 12 V DC external power supply included; 4W Standby; 50 W (mean) analysis

WEIGHT: 33 Kg without reagents; **DIMENSION:** 800x420x280 mm(hxwx d)

Subject to change without notice



SYSTEA S.p.A.

MAIN OFFICE, PRODUCTION AND SERVICE:

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

Document ID: Micromac MP2 COD(UV)_BOD(FLUO)_01-EA