

MICROMAC COLOR

ON LINE ANALYZER FOR COLOR MONITORING IN WATER



MICROMAC COLOR is a microprocessor controlled On Line analyzer specifically designed for automatic Color monitoring on several types of water matrices.

✓ 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 hydraulics allows easy maintenance and long terms reliable operations.

✓ 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 the sample line, the distilled water, the waste line, the Pt-Co calibrant solution and the power supply.

✓ 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.

✓ SAMPLE DILUTION

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

✓ MEASURING INTERVAL

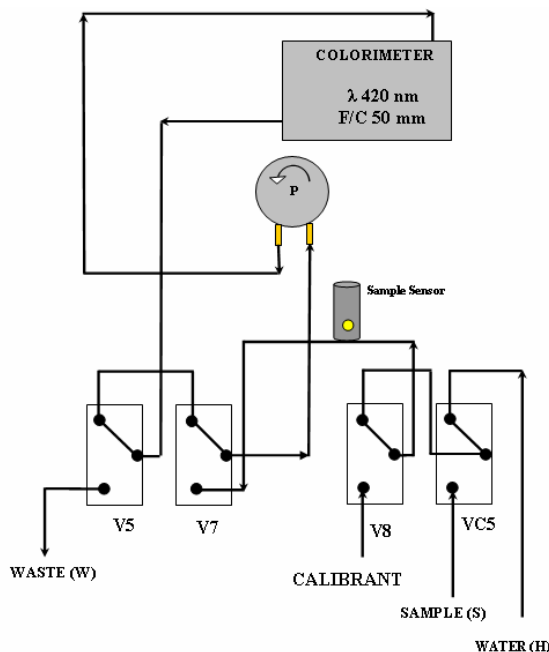
User selectable; between two measurements the analyzer remains in stand by mode, without any consumption.

✓ 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)

Color measuring principle and hydraulic diagram

The sample after proper filtration is introduced in the hydraulic loop and it is measured colorimetrically at 420 nm. The color sample concentration is calculated against the Pt-Co calibration factor stored in the analyzer. After the measurement, the analyzer performs an automatic cleaning cycle using distilled water.



Technical Specifications

MEASURING PRINCIPLE: Colorimetric direct reading, using Pt-Co standard

COLORIMETER: dual beam, silicon detector

MEASUREMENT TYPE: cyclic

MEASURING INTERVAL: programmable

MEASURING TIME: about 3 minutes, depending on the range

MEASURING RANGE: 0 – 100/ 1000 units as Pt-Co standard; other range available on request

DETECTION LIMIT: typically better than 5% 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 liquids;

DIMENSION: 800x450x300 mm (hxwxd)

Subject to change without notice

**SYSTE A S.p.A.**

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