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INCONEF
INSTALACIÓN Y CONTROL DE ENERGÍA Y FLUIDOS

SN8- Total remote control

Direct intervention with the biomass

The SN8 is an online respirometer which is designed to interact with the process and serve as a tool for better control and optimization. For this purpose, the SN8 has sensors for oxygen, pH and Redox and optionally for ammonium. It can also be configured to control either one or two biological reactors with the same unit.

ADVANTAGES:

- Can be configured from a basic respirometer.
- More than one reactor can be controlled with the same unit.
- Unaffected by the level of the pool.
- Low maintenance sensors.
- Reproduction of the process in real conditions.
- Can be installed at different points of the process.
- Configured with MODBUS TCP communication, 4-20 or 0-10V outputs, to enable it to be integrated into the plant's control system. Remote control, database and email alerts.

APPLICATIONS:

- Primary evaluation of the sludge.
- Detection of waste discharges.
- Automatic aeration control based on respirometry:
 - Energy optimization: both in the nitrification, and in industrial plants with or without nitrification.
 - Optimization of SBRs.
- Automatic control of nutrient dosage, based on respirometry.



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CHARACTERISTICS:

- Touch-screen user interface
- Software for the automatic calculation of OUR/SOUR, Rsn/AUR, etc.
- Simple data transfer for PC.
- Data history.
- Portable cabinet measuring 400x500mm.

ELECTRICAL AND SOFTWARE SPECIFICATIONS:

- Wifi, Ethernet connection
- Modbus communication
- Data registry
- Trend graphics.
- Data export.
- Software for computers.
- APP for mobile devices.



TECHNICAL SPECIFICATIONS:

OXYGEN

- Range: 0 - 35mg/l.
- Max. Temp.: 50°C.
- 1 or 2 calibration points (air saturation and 0ppm).
- Response time 0.06 mg/ 1 sec.

PH

- Range: 0-14 (Na⁺ error at > 12.3 pH)
- Temp. range: 1-99°C (212°F).
- Response time: 95% in 1 second.
- Isopotential point: pH 7.00 (0 mV)

TEMPERATURE

- Range: -200°C to 850°C.
- Type of sensor: Class A platinum, RTD.
- Accuracy: +/- (0.15 + (0.002*t)).
- Response time: 90% in 13s.

REDOX

- Range: +/- 2000mV.
- Temperature: 80°C (176°F).
- Response time: 95% in 1 second.
- Dimensions: 12mm x 150mm (1/2" x 6").



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