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sensara

SN8 *Online Respirometer*

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, temperature, pH and Redox. It can also be configured to control either one or two biological reactors.

Tests and parameters

Using the SN-8 respirometer, the following tests are carried out that provide the following parameters automatically:

- OUR TEST (Global Respirometry): OUR, SOUR
- AUR TEST (Nitrification Rate): Rn, AUR
- TOX TEST (Toxicity): % Inhibition
- DESNITRIFICATION TEST
- COD TEST: Biodegradable COD
- Cellular Retention Time (MCRT)
- Needed Oxygen

Aplications

- TOXICITY
- AERATION
- DESNITRIFICATION
- NITRIFICATION

SN8 *Online Respirometer*

Respirometry in the active sludges process

- Respirometry is a technique that allows us to assess, control and protect the active sludge process by providing information about the state or the activity of the biomass. This enables us to anticipate most of the problems that may affect the process, so guaranteeing, right from the outset, that the correct decisions are taken to counter these problems.
- Respirometry is also a necessary tool for optimizing the active sludge process and the level of toxicity of the wastewater for the microorganisms. It also determines the essential parameters for modeling this process.

Advantages SN8

- Automatic operation 24 hours, 7 days.
- Integration with the plant. Plant control.
- Low maintenance sensors.
- Reproduction of the process in real conditions.
- Can be installed at different points of the process.
- Biga data

Electrical and Software Specificatios

- 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.
- Data registry, Trend graphics, Data export.
- Software for the automatic calculation of OUR/SOUR, Rsn/AUR, etc.