

Organic load under control

Endress+Hauser launched a new analyser for the chemical oxygen demand. Liquiline System CA80COD is perfectly suited for environmental monitoring and applications in municipal and industrial wastewater.

Reliable assessment of the organic load

Chemical oxygen demand is the most commonly used parameter to determine the organic load of wastewater. Precise online measurement of COD in the inlet of wastewater treatment plants helps to re-direct heavily loaded water into buffer basins while measurement in the outlet enables plant managers to evaluate the cleaning capacity of their plants. In industrial wastewater treatment, COD is measured in the outlet to support load-based billing according to the polluter-pays principle. Liquiline System CA80COD is the right analyser for all plant managers that require “true” COD values to comply with regulations: It uses the established dichromate measuring method ensuring consistent comparability to lab measurements and its detailed logbooks provide all required documentation to the authorities.

Safety for process and personnel

Since COD measurement requires thermal and chemical digestion of samples, operational and occupational safety play an important role in the measuring process. “Liquiline System CA80COD features a software-controlled safety cover that prevents opening of the digestion reactor when it is too hot or under pressure”, explains Endress+Hauser’s product manager Jan Swart. “It thus ensures the highest level of safety”. The precisely adjusted reactor temperature guarantees complete digestion of the sample and a redundant light barrier in the optical dosing unit provides the best level of reliability.

Precision starts with precise dosing

Liquiline System CA80COD is equipped with peristaltic pumps that are able to cope with particles which is important for the detection of particle-bound COD. It also uses an optical dosing unit guaranteeing precise and reproducible dosing of small reagent volumes. Automatic cleaning and calibration functions make sure that the analyser maintains its precision over a long period of time without manual intervention. If disturbances should occur, advanced diagnostics with remote access help plant managers to analyse and remedy them quickly. Required maintenance measures can be carried out easily, reducing maintenance costs and increasing process uptime.

Saving time during commissioning and operation

All Liquiline System analysers share the user-friendly operating concept that plant personnel already know from other online analysis parameters such as pH or conductivity. Operating errors are virtually eliminated. The analysers can be easily upgraded to a complete measuring station by connecting Memosens sensors. They then adopt the transmitter functions, which reduces the total number of devices in the plant. Integration of the analysers into the process is done fast: The self-priming CA80COD is either directly installed without an additional sample preparation or easily integrated in bypass installations using the optional y-strainer.

Liquiline System COD analysers help wastewater treatment plant managers to document their plant’s cleaning capacity while supporting managers of industrial plants to keep their discharge fees under control.

For more information, please visit: http://bit.ly/COD_Analyser_CA80COD

For more information, please contact:

Jan Swart

Product Manager: Analytics

jan.swart@za.endress.com

The Endress+Hauser Group

Endress+Hauser is a global leader in measurement instrumentation, services and solutions for industrial process engineering. The Group employs 13,000 personnel across the globe, generating net sales of 2.1 billion euros in 2015.

Structure

With dedicated sales centers and a strong network of partners, Endress+Hauser guarantees competent worldwide support. Our production centers in 11 countries meet customers' needs and requirements quickly and effectively. The Group is managed and coordinated by a holding company in Reinach, Switzerland. As a successful family-owned business, Endress+Hauser is set for continued independence and self-reliance.

Products

Endress+Hauser provides sensors, instruments, systems and services for level, flow, pressure and temperature measurement as well as analytics and data acquisition. The company supports customers with automation engineering, logistics and IT services and solutions. Our products set standards in quality and technology.

Industries

We work closely with the chemical, petrochemical, food & beverage, oil & gas, water & wastewater, power & energy, life science, primaries & metal, renewable energies, pulp & paper and shipbuilding industries. Endress+Hauser supports its customers in optimizing their processes in terms of reliability, safety, economic efficiency and environmental impact.

History

Founded in 1953 by Georg H Endress and Ludwig Hauser, Endress+Hauser has been solely owned by the Endress family since 1975. The Group has developed from a specialist in level measurement to a provider of complete solutions for industrial measuring technology and automation, with constant expansion into new territories and markets.

For further information, please visit www.press.endress.com or www.endress.com

Contact

Anja Krump	Email:	anja.krump@conducta.endress.com
Marketing Communication	Phone:	+49 7156 209 228
Endress+Hauser Conducta GmbH+Co.KG	Fax :	+41 7156 209 266
Dieselstr. 24		
70839 Gerlingen		
Germany		