**New additions to analytical portfolio**

* Total suspended solids (TSS) sensors OPTISENS TSS 3000 for wastewater and OPTISENS TSS 7000 for hygienic applications: glass free optical sensors for various concentration ranges
* MAC 300 menu driven analytical transmitter for OPTISENS TSS, pH/ORP and COND sensors

**Text:**

Duisburg, October 25, 2017: With OPTISENS TSS 3000 and 7000 and MAC 300, KROHNE adds two new total suspended solids (TSS) sensors and a transmitter to its analytical portfolio.

OPTISENS TSS 3000 is a total suspended solids sensor for wastewater applications in various industries with 1 1/4 NPT thread to fit into a retractable or immersion assembly. OPTISENS TSS 7000 is a total suspended solids sensor for hygienic applications with Tri-Clamp or VARIVENT process connection, e.g. in milk separation, fruit processing and other food and beverage applications. It can also be used for hygienic concentration measurement in other process industries, e.g. for monitoring steam or cooling water circuits.

OPTISENS TSS 3000 and 7000 both are glass free optical sensors with multiple path lengths for various concentration ranges. They use alternating light 4-beam technology for a higher reliability of the measurement compared to classic 2-beam technologies. 2 NIR LEDs (880 nm) light sources and 2 detectors compensate for most errors caused by dirt, aging or light source variations. By measuring directly through a PP layer, measurement errors and sealing problems typically caused by glass windows cannot occur. Both can be operated with the MAC 300 analytical transmitter.

MAC 300 is a menu driven analytical transmitter for OPTISENS TSS, pH/ORP and COND sensors. It can be operated with up to three different analytical sensors, processing their signals to the control system via up to six analogue 0/4...20 mA outputs, relay outputs or optional Modbus. It features a backlit LCD display, robust housing (IP66/67, NEMA 4/4X) for wall-mount or panel-mount installation, optional live trending and data logging, and an SD card slot to save parameter sets or upload new firmware.

VARIVENT is a trademark of GEA Tuchenhagen

About KROHNE: KROHNE is a full-service provider for process measuring technology for the measurement of flow, mass flow, level, pressure and temperature as well as analytical tasks. Founded in 1921 and headquartered in Duisburg, Germany, the company employs over 3,700 people all over the world and is present on all continents. KROHNE stands for innovation and maximum product quality and is one of the market leaders in industrial process measuring technology.

**Picture:**



**Caption:** New additions to the analytical portfolio: total suspended solids sensors OPTISENS TSS 3000 and 7000 and MAC 300analytical transmitter (from left to right)

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