

# PRESS RELEASE

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## SAMSON Uses Real-time Acoustic Monitoring for Smart Control Valves

Strategic partnership with 3DSignals

As part of a strategic technological cooperation, SAMSON AKTIENGESELLSCHAFT will team up with the Israeli start-up company 3DSignals Ltd. A memorandum of understanding was signed in Frankfurt am Main, Germany on 24 March 2017.

SAMSON will use the technology developed by 3DSignals in its control valves and systems engineering solutions to open up new opportunities for the monitoring of industrial plants as well as their preventive and predictive maintenance. "This is the right time for us to begin collaborating with companies like 3DSignals that are driving innovation in IoT and artificial intelligence. This will enable us to go beyond devices and into new services, such as adaptive predictive maintenance, and gain process control insights that are rapidly becoming a must in today's digitized manufacturing environments," said Dr. Andreas Widl, CEO of SAMSON.

3DSignals' technology includes innovative microphone and sensor systems that monitor the sound generated in plant sections while a process is running. As a result, anomalies, which can lead to plant downtime and consequently a standstill in production, can be detected at an early stage. Signals are analyzed in real time by a compact controller unit that uses artificial neural networks and deep learning. The technology was designed for application in challenging industrial environments, such as oil and gas, chemicals and petrochemicals as well as power and energy.

### About SAMSON

SAMSON manufactures control and butterfly valves for use in all areas of process engineering as well as self-operated regulators for simple control systems with a constant reference variable. Sophisticated transmitters, controllers, and automated systems round off the SAMSON product line. Together with the SAMSON subsidiaries (AIR TORQUE, CERA SYSTEM, KT-ELEKTRONIK, LEUSCH, RINGO, PFEIFFER, SAMSOMATIC, STARLINE, and VETEC), SAMSON AG offers a product portfolio to meet all industrial process requirements.

### About 3DSignals

Founded in 2015, 3DSignals, pioneered the application of sound-based predictive maintenance for industrial and manufacturing equipment. Using the company's proprietary hardware and software system, 3DSignals customers can listen to their machines such as pumps, turbines, hydraulics, motors, compressors, robotics, bearings, and gearboxes; with airborne ultrasonic sensors, anticipate problems with real-time alerts, and reduce unplanned downtime with predictive analytics.

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