



**TRANSPARENCY**  
IN NO TIME AT ALL

DIGITAL PRODUCTS  
BY SAMSON

**SAM**<sup>®</sup>  
DIGITAL

SMART IN FLOW CONTROL.



## SAMSON ASSET MANAGEMENT

Based on SAMSON's ultramodern digitization and automation platform, SAM DIGITAL offers solutions that enable you to keep up with the growing level of digitization in process automation applications. By developing the SAM DIGITAL product line, we at SAMSON are transferring our core expertise – quality, reliability and safety – into the digital era. SAM DIGITAL applies the unique know-how accumulated at SAMSON and converts it into an immediate benefit for our customers. SAM DIGITAL upgrades the existing product portfolio while SAMSON makes the transition from a pure manufacturer of valves and controllers to a provider of process intelligence.

Expertise gained over decades is combined with state-of-the-art technologies and smart information. For our customers, this means optimized processes and a true added value, for example in terms of reduced cost of operation, predictive maintenance or lower spending on service and repairs.

We offer you complex, comprehensive solutions, ranging from the implementation of manufacturer-independent connectivity in existing infrastructures to supplying intelligent hardware and an Internet of Things platform. This broad approach was also behind the name choice as SAM stands for SAMSON Asset Management.

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## INDUSTRY-SPECIFIC APPLICATIONS AT A GLANCE

- Link your smart field devices with the SAMSON cloud.
- Keep track of your field devices, including complete status information.
- Check measured, target and actual values of every device.
- Detect faults and malfunctions in the plant early.
- Trust in the secure transmission of your data and in the SAMSON cloud, which is hosted in Germany and according to German law.
- Eliminate unnecessary spending and only pay for the services you actually use.

## RANGE OF SAM DIGITAL SOLUTIONS

- SAM CHEMICALS
- SAM FLEX
- SAM TANK MANAGEMENT
- SAM DISTRICT ENERGY

Further industry-specific applications are in preparation.  
Do not hesitate to contact us.

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## ALL CONTROL VALVES AT A GLANCE

SAM CHEMICALS lets you keep track of all smart control valves installed in your plant from anywhere in the world. All you have to do is link the smart SAMSON positioners fitted on your valves with the SAM DIGITAL cloud solution. The networked positioners are displayed together with their device status. In addition, you can monitor current actual and target values, trends and historical data for every single positioner in a device view. SAM CHEMICALS makes all data required for plant operation accessible at one central location, regardless of the process control system and communication protocol used.

Positioners suitable for use with SAM CHEMICALS:

- Types 3730-3/-4/-5/-6
- TROVIS SAFE 3730-6
- TROVIS 3793
- TROVIS SAFE 3793

SAM CHEMICALS

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## BENEFITS FOR USERS

- Maximum transparency of connected control valves
- Automatic status information (color-coded system)
- Access to device-specific documents
- Fully web based: independent of process control system and communications protocol used

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## DETECTING PLANT POTENTIAL

There are obvious benefits provided by state-of-the-art diagnostic software: round-the-clock monitoring of tags pinpoints the causes of possible malfunctions and reveals potentials for plant optimization. For the very first time, the SAM SOLUTION option enables you to access device data on field level from anywhere at any time, regardless of the process control system used and without requiring any additional software. The fully web-based solution links SAMSON equipment with the SAMSON cloud. All data are saved, managed and clearly visualized in the cloud. By analyzing and assessing the data, SAM SOLUTION can generate information on the condition of the specific tag and the entire plant, which makes it possible to exploit potentials for optimization.

Positioners suitable for analyzing the EXPERT-plus valve diagnostics using SAM SOLUTION:

- Types 3730-3/-4/-5/-6
- TROVIS SAFE 3730-6
- TROVIS 3793
- TROVIS SAFE 3793

SAM SOLUTION

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## BENEFITS FOR USERS

- Overview of all smart field units
- Dashboard view including all important data
- Round-the-clock monitoring with direct detection of malfunctions and faults
- Detailed recommended action for troubleshooting
- Scheduled and predictive maintenance
- Recommendations for optimization
- Support in spare parts management

SAM SOLUTION

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## TAILOR-MADE FLEXIBLE SOLUTIONS

Interested in using the benefits provided by SAM DIGITAL also for non-SAMSON equipment? SAM FLEX is the right solution for you. In addition to networking control valves fitted with smart positioners by SAMSON, SAM FLEX makes it possible to link final elements and sensors by other manufacturers as well. On request, our software engineers tailor SAM FLEX to fit your specific needs. Naturally, standard functions from the SAM CHEMICALS and SAM SOLUTION modules can be integrated without any problems. SAM FLEX gives you a true overview of all field units installed in your plant. Secure transmission and saving of all device data in the SAMSON cloud is ensured: the cloud is hosted in Germany and according to German law.

SAMSON equipment suitable for use with SAM FLEX:

- Types 3730-2/-3/-4/-5/-6, TROVIS SAFE 3730-6, TROVIS 3793 and TROVIS SAFE 3793 Positioners
- Types 3374 and 3375 Electric Actuators
- TROVIS 5724-8 and 5725-8 Electric Actuators with Process Controllers
- TROVIS 6495-2 Industrial Controller

On request, smart final elements and sensors made by other manufacturers can be included as well.

## SAM FLEX

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## BENEFITS FOR USERS

- Central platform
- Maximum transparency of connected field devices
- Data read out and aggregation, processing for further use
- Early information and alarm notification in case of malfunctions, etc.
- Interfaces to customer and third-party systems

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## RELIABLE TANK MONITORING

The industry-specific SAM TANK MANAGEMENT application was specifically developed for monitoring the filling levels of liquids, gases and vapors stored in stationary or truck-mounted pressure vessels. Critical situations requiring an immediate response can occur, for example when the filling level is too low, the tank overflows or when the operating pressure is too high or too low. SAMSON's digital solution logs all monitored parameters continuously, transfers them to SAM TANK MANAGEMENT and makes them available for further analyses. For you, these analyses offer considerable advantages and can help cut cost.

The Media 7 Differential Pressure Meter is suitable for use with SAM TANK MANAGEMENT. The Media 7 Differential Pressure Meter transmits the collected data either via cable or an optional integrated GSM module.

# SAM TANK MANAGEMENT

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### BENEFITS FOR USERS

- Precise usage data to achieve better predictions
- Improved delivery routes and scheduling
- Improved utilization of truck capacities
- Avoidance of costly overfills and empty tanks
- Safeguarding against dangerous pressure build-up
- Early warning before devices fail
- Scheduled and predictive maintenance
- Interface to ERP systems
- Smart sensors and ready-processed data



SAM TANK MANAGEMENT





## EFFICIENT ENERGY MANAGEMENT

SAM DISTRICT ENERGY is a web-based solution for managing, controlling and optimizing heating and cooling systems. All key data on connected controllers, utility meters and electric actuators are saved at one central location. Gateways are used to record the energy consumption at every station and make the associated data available on the SAM DISTRICT ENERGY platform. Meter IDs and consumption data are clearly assigned to one another so that the heat consumption and billing information are recorded for every customer. It is no longer necessary to read the meters on site. The large amount of data recorded makes it possible to analyze the local and district heating networks the consumers are connected to and increase their efficiency.

SAMSON equipment suitable for use with SAM DISTRICT ENERGY:

- TROVIS 5573, 5576, 5578, 5579 Heating and District Heating Controllers
- Types 3374 and 3375 Electric Actuators
- TROVIS 5724-8 and 5725-8 Electric Actuators with Process Controllers

## SAM DISTRICT ENERGY

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## BENEFITS FOR USERS

- Easy integration of controllers, utility meters, etc.
- Remote start-up, operation and control
- Full device information at a glance
- Logging of consumption data
- Historical data (trends) for all integrated devices
- Unlimited scalability
- Find, sort and map functions
- Device location shown on a map
- User administration
- Alarm management
- Active assistance in customer support
- Provision of data for billing and analysis

SAM DISTRICT ENERGY

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## SAMSON AT A GLANCE

### STAFF

- Worldwide 4,000
- Europe 3,300
- Asia 500
- Americas 200
- Frankfurt am Main, Germany 1,600

### MARKETS

- Chemicals and petrochemicals
- Power and energy
- District heating and cooling, building automation
- General industry
- Industrial gases
- Food and beverages
- Metallurgy and mining
- Oil and gas
- Pharmaceuticals and biotechnology
- Marine equipment
- Water and wastewater
- Pulp and paper

### PRODUCTS

- Valves
- Self-operated regulators
- Actuators
- Valve accessories
- Signal converters
- Controllers and automation systems
- Sensors and thermostats
- Digital solutions

### SALES SITES

- More than 50 subsidiaries in over 40 countries
- More than 200 representatives

### PRODUCTION SITES

- SAMSON Germany, Frankfurt, established 1916  
Total plot and production area: 150,000 m<sup>2</sup>
- SAMSON France, Lyon, established 1962  
Total plot and production area: 23,400 m<sup>2</sup>
- SAMSON Turkey, Istanbul established 1984  
Total plot and production area: 11,053 m<sup>2</sup>
- SAMSON USA, Baytown, TX, established 1992  
Total plot and production area: 9,200 m<sup>2</sup>
- SAMSON China, Beijing, established 1998  
Total plot and production area: 10,138 m<sup>2</sup>
- SAMSON India, Pune district, established 1999  
Total plot and production area: 18,000 m<sup>2</sup>
- SAMSON Russia, Rostov-on-Don, established 2015  
Total plot and production area: 5,000 m<sup>2</sup>
- SAMSON AIR TORQUE, Bergamo, Italy  
Total plot and production area: 27,684 m<sup>2</sup>
- SAMSON CERA SYSTEM, Hermsdorf, Germany  
Total plot and production area: 14,700 m<sup>2</sup>
- SAMSON KT-ELEKTRONIK, Berlin, Germany  
Total plot and production area: 1,060 m<sup>2</sup>
- SAMSON LEUSCH, Neuss, Germany  
Total plot and production area: 18,400 m<sup>2</sup>
- SAMSON PFEIFFER, Kempen, Germany  
Total plot and production area: 35,400 m<sup>2</sup>
- SAMSON RINGO, Zaragoza, Spain  
Total plot and production area: 18,270 m<sup>2</sup>
- SAMSON SED, Bad Rappenau, Germany  
Total plot and production area: 10,370 m<sup>2</sup>
- SAMSON STARLINE, Bergamo, Italy  
Total plot and production area: 26,409 m<sup>2</sup>
- SAMSON VETEC, Speyer, Germany  
Total plot and production area: 27,090 m<sup>2</sup>

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