

HIGH-SPEED DATA TRANSMISSION  
FOR THE PROCESS INDUSTRY



## NETWORKING

BE QUICK, SAFE AND SMART IN  
CONTROLLING YOUR PLANT

 **ethernet-apl™**  
advanced physical layer

**PROFI  
NET**



- **SAFE**  
Intrinsic safety ensured using 2-WISE
- **FAST**  
Transmission rates of 10 Mbit/s allow for real-time data analyses
- **FLEXIBLE**  
Retrofittable options thanks to modular design
- **TRANSPARENT**  
Various interface options available to access device data (PROFINET®, FDI, on-site display, TROVIS-VIEW)

### Features of the TROVIS 3797 Positioner

- Seamless integration into IIoT environments
- Maximum accuracy for optimized process quality
- Comprehensive diagnostics in real time for predictive maintenance
- Ready for the process automation tasks of the future
- International explosion protection certificates

# TROVIS 3797

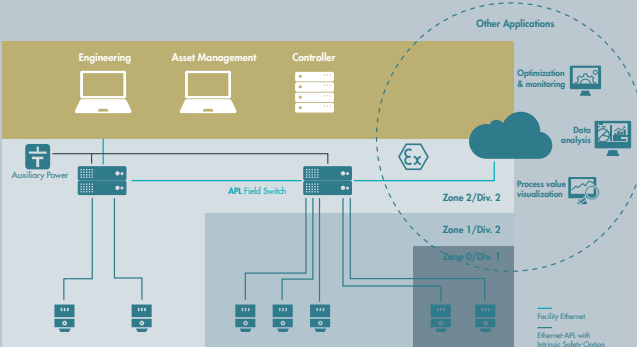
Smart Positioners  
for Smart Control Valves

SMART IN FLOW CONTROL

## SIMPLIFY ENGINEERING, START-UP AND MAINTENANCE

### Maximum efficiency in networked production

Just imagine that your plant could talk. SAMSON has a way of making that possible. We are revolutionizing the process industry with our TROVIS 3797, the world's first positioner with Ethernet-APL capabilities. This smart positioner is your gateway to networked production and paves your way into the future of process automation. Ethernet-APL makes it possible to use high-speed data transmission and real-time diagnostics even in hazardous areas.







### Our positioner with PROFINET® over Ethernet-APL keeps everything under control for you.

The future of industrial automation is here – SAMSON makes it accessible and usable for you. Our Ethernet-APL-based solutions are your key to networked production, ensuring the highest level of accuracy in process control. With a 10 Mbit/s transmission rate and up to 1,000 meter reach, we overcome the limits of traditional fieldbus communication. Our systems can be seamlessly integrated into your existing infrastructure. The result is a consistent network integration from the field level to cloud-computing environments, which serves as the basis for advanced analytics and AI-based process optimization.

## IMPROVE THE FLOW OF DATA IN YOUR PLANTS

### Key benefits of TROVIS 3797 using PROFINET® over Ethernet-APL

	 HART®	 PROFIBUS®/ FOUNDATION™ fieldbus	 ethernet-apl™ advanced physical layer 
Bandwidth	1.2 kbit/s	31.25 kbit/s	10 Mbit/s
Cable length Ex zone	Approx. 100 – 1,000 m*	Approx. 1,000 m Spur 60 m	Up to 1,000 m Spur 200 m
Architecture	Complex gateway	Complex gateway	Direct connection No gateway required
Intrinsic safety	✓	✓	✓
Single network architecture throughout the plant	✗	✗	✓
Polarity independent	✗	✓**	✓

\* Depending on the cable used  
\*\* Depending on the manufacturer

In the world of Industry 4.0 and the Industrial Internet of Things, TROVIS 3797 is your key to success. The world's first Ethernet-APL positioner is the central nervous system in your smart production operations. Trust in the 1:1 transmission of field data. Benefit from the real-time diagnostic features of our TROVIS 3797 to save time and cut cost. Long delays and complex field testing are things of the past. Today, it's all about efficiency, transparency and smart features. And what about production safety? No problem with SAMSON's new positioner.

TROVIS 3797 is your partner on the digital transformation journey. By recording and analyzing data in real time, our positioner lays the foundations for networked, efficient and smart production. Benefit from the power of data to improve plant efficiency and minimize downtime.

...*"The new PROFINET®-APL positioner by SAMSON is an important tool to enable the full digitalization of the field level in our new high-performance digital process plants working with PROFINET®-APL. This means digital integration of sensors as well as control valves."*

(customer feedback, October 2024)

## GAIN BETTER INSIGHTS INTO YOUR PLANT

### Maximum control accuracy and reliability

Experience the future of process automation with our ultramodern positioner providing seamless PROFINET® integration. Benefit from:

- ✓ **Maximum control accuracy:** precise control for optimized process performance
- ✓ **Fast data transmission:** Ethernet-APL provides you with real-time data, enabling you to take decisions immediately.
- ✓ **Rugged reliability:** developed for challenging industrial environments to maximize your plant's uptime
- ✓ **Easy integration:** using PA Profile 4 and standardized FDI package

Improve your plant efficiency and availability with our innovative solution. Contact us today to get more information.

### Technical data



### Contact

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# DIAGNOSTICS

RETRIEVE DATA DIRECTLY FROM THE FIELD



## SMART

Smart positioner with PROFINET® communication and innovative diagnostics

## REACH

Distances up to 1,000 m at the field level

## PLUG AND PLAY

Quick availability of devices and data including easy replacement in the field

## NETWORKING

PROFINET® integration using PA Profile 4 and including FDI package



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SMART IN FLOW CONTROL