



AND  
EVERYTHING  
FLOWS

# TROVIS 3797

Smart Positioners  
for Smart Control Valves



**ethernet-apl™**  
advanced physical layer

# MAXIMUM EFFICIENCY. SMART NETWORKING.

TROVIS 3797 is the world's first positioner with Ethernet-APL technology certified by the PROFIBUS User Organization. With this positioner, you can connect your plant to the digital process environment. High-speed data, real-time diagnostics and safe communication even in hazardous areas: TROVIS 3797 takes automation to the next level.



## RE-THINKING CONTROL USING PROFINET® OVER ETHERNET-APL

SAMSON's new positioner is a secure solution, which can transmit data directly into your plant at high speeds of 10 Mbit/s over distances of up to 1000 meters. Seamless integration into existing infrastructures allows for end-to-end networking, from the field level to cloud-computing environments. This is the basis for advanced analytics and AI-based process optimization.

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.

*"Choosing TROVIS 3797 is an investment in a future-proof control solution to maximize the performance and profitability of your plant."*  
(Mr. Christopher Bode, Product Manager)

*"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)



# KEY BENEFITS OF TROVIS 3797 USING PROFINET® OVER ETHERNET-APL?

	 HART® COMMUNICATION PROTOCOL	 PROFIBUS®/ FOUNDATION™ fieldbus	 ethernet-apl™ advanced physical layer 
	HART®	PROFIBUS®/ FOUNDATION™ fieldbus	10BASE-T1L (Ethernet-APL/PROFINET®)
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	Approx. 1,000 m Spur 200 m
Architecture	Complex gateway	Complex gateway	Direct connection No gateway required
Intrinsically safe	✓	✓	✓
Single network architecture throughout the plant	✗	✗	✓
Polarity independent	✗	(✓)**	✓

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

## MAXIMUM CONTROL ACCURACY AND RELIABILITY

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

- Maximum 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

### Technical data





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# POSITIONER

[samsongroup.com](https://www.samsongroup.com)