

Single-Point Transmitters

Flowserve IPS Wireless Single-Point Transmitters provide wireless data acquisition and transmission of analog and digital signals in a single self-contained, self-powered unit.

Several Models Available

IPS Wireless Single-Point Transmitters are available in several models to suit application-specific needs:

Pressure Monitoring (ELD-101-P): Pressure transmitters are available for operating pressures from vacuum to 690 bar (10,000 psi). Typical applications include pipelines, vessels, reactors, stacks, tanks, pumps and other rotating equipment.

Vibration Monitoring (ELD-101-V): Vibration transmitters measure overall vibration readings in either acceleration or velocity. Efficient and reliable vibration monitoring lengthens service life and optimizes rotating equipment performance. Common uses include point monitoring on motors, bearing housings, pump bases, skid frames and compressor frames.

Temperature Monitoring (ELD-101-T): Temperature transmitters are available in RTD or thermocouple designs. Operating ranges are defined by the specific application. Temperature monitoring is commonplace on rotating equipment, tanks, vessels, pipelines, process units and control panels.

Gas Emissions Detection (ELD-101-H): Gas detection transmitters are available for a multitude of environments, both atmospheric and submersible. The gases monitored with these devices include, but are not limited to, NH₃, CO, CO₂, Cl₂, H₂S, O₂, SO₂, and many volatile organic compounds. Typical applications include monitoring of emissions points on seals, valves, flanges, process areas, tank vents and storage.

Analog Input (ELD101-4/20): 4/20 mA transmitters can be used to add wireless transmission capability to existing sensors. They can be powered by battery or loop power.

Discrete Interface (ELD-101-SW): Discrete interface transmitters add wireless capability for discrete single channel operation. Typical applications include interface to dry contacts or relays.



Flowserve IPS Wireless technology allows the economical acquisition and the prompt utilization of important process data, including:

- Flow
- Level
- Gas emissions
- Pressure
- Temperature
- Vibration
- Energy consumption



Transmission Range

IPS Single-Point Transmitters have a self-transmitting range of 1.2 km (0.75 mile) and 2.4 km (1.5 miles) for discrete signal. With the addition of a Flowserve multiple repeater network, the effective transmission range extends to 11.2 km (7.0 miles).

Limitless Applications

The Flowserve IPS Wireless product series provides customers with cost-effective, reliable and scalable data communication systems that enhance productivity and profitability. Whether for portable or fixed assets or analog or digital instruments, Flowserve has wireless solutions for:

- Equipment performance monitoring
- Process monitoring
- Asset management
- Health, safety and environmental issues
- Regulatory compliance

Specifications

IPS Wireless devices are self-powered and self-transmitting. They employ open platform architecture for maximum versatility. This ensures Flowserve wireless devices will interface and integrate easily with most existing instrumentation, software and controllers.

SPECIFICATIONS	
Operating frequency	902-928 MHz, 868 MHz, 2.4 GHz
Channels	2
Transmission rate	5 seconds, momentary - for discrete
Transmission range	1.2 km (0.75 mile) 2.4 km (1.4 miles) - for discrete
Operating temperature	-40°C to 85°F (-40°F to 185°F)
Humidity	0-95% noncondensing
Power requirement	3 VDC
Enclosure	PVC tube, 50 mm x 220 mm (2 in x 8.75 in)
Base	316LSS
Base mounting/connection	1/2 in MNPT or application specific
Weight (without battery)	1.1 kg (2.5 lb)
Certification & area classification	CSA/NRTL EXIA Class 1 Div. 1: A, B, C and D; CE

AVAILABLE MODELS	
ELD-101-P	Pressure Monitoring
ELD-101-DP	Differential Pressure Monitoring
ELD-101-VA	Vibration Monitoring - Acceleration
ELD-101-VV	Vibration Monitoring - Velocity
ELD-101-TRTD	Temperature Monitoring - RTD
ELD-101-TTC	Temperature Monitoring - Thermocouple
ELD-101-H	Gas Detection
ELD-101-4/20-BP	Single Point 4/20 mA Input - Battery Powered
ELD-101-4/20-LP	Single Point 4/20 mA Input - Loop Powered
ELD-101-SW	Discrete Interface

ENVIRONMENTAL	
Installation category	I
Pollution degree	II
Altitude	Up to 2000 m (6560 ft)

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To find your local Flowserve representative:

For more information about Flowserve Corporation, visit www.flowserve.com or call USA 1 800 728 PUMP (7867)

USA and Canada

Flowserve Corporation
5215 North O'Connor Blvd.
Suite 2300
Irving, Texas 75039-5421 USA
Telephone: 1 937 890 5839

Europe, Middle East, Africa

Flowserve Corporation
Gebouw Hagepoint
Westbroek 39-51
4822 ZX Breda
Netherlands
Telephone: (31) 76 502 8920

Latin America

Flowserve Corporation
Boulevard del Cafetal
Edificio Ninina, Local 7
El Cafetal - Caracas
Venezuela 1061
Telephone: 58 212 985 3092
Telefax: 58 212 985 1007

Asia Pacific

Flowserve Pte. Ltd.
200 Pandan Loop #06-03/04
Pantech 21
Singapore 128388
Telephone: 65 6771 0600
Telefax: 65 6779 4607