



**REDRAVEN™**

# IPS WIRELESS SMART MULTI-PORT TRANSMITTER

## Flowserve IPS Wireless Model SELD-103-X

The SELD-103-X (103) model is a wireless transmitting unit designed to monitor multiple sensor inputs and wirelessly transmit the data to a receiver.

The 103 is a self-powered unit that has five communication ports to measure up to seven different sensor inputs (utilizing combination sensors) per unit (contact factory for configuration options).

The 103 model has a built-in, omni-directional wireless antenna, allowing for reliable signal transmission. Data transmission can occur at a customizable time interval, ranging from every 5 seconds to once a day (the recommended transmit rate is every 15 minutes).

Transmission rates can also be varied according to sensor alarm parameters, thereby optimizing battery life. The 103 unit has a maximum data transmission range of 1.21 km (0.75 mi) under ideal conditions, but its effective transmission range can be extended using a network of Wireless Smart Repeaters.

**Flowserve**  
77064 TX, USA

Model: SELD-103



IECEX SIR.10.0006  
Sira 10ATEX2013  
Ex ia IIC T6 Ga  
Ex ia IIIC T85°C Da  
-20°C ≤ Ta ≤ +60°C

CSA 2010 2273150  
CI I, Zn 0 A/Ex ia IIC T6  
I.S. for CI I, Div 1 Grps A, B, C, D;  
CI II, Div 1, Grps E, F, G;  
CI III, Div 1, and provides I.S. circuits  
with Entity Parameters per Install  
Manual 701-3000  
Tem. Code T6  
-20°C ≤ Ta ≤ +60°C

**WARNING: DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE  
MAY BE PRESENT.**

**WARNING: WIPE ONLY WITH DAMP CLOTH DUE TO ELECTROSTATIC  
DISCHARGE HAZARD.**

**WARNING: USE ONLY BATTERY PACK S1-1043**

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## Specifications

Operating frequency	900 or 868 MHz
Operating range	1.21 km (0.75 mi)
Channels (external)*	4-GP, 1-Gas, 2-Inst, 2-DI, 1-RS-485
Channels (internal)	1-Battery voltage 1-Onboard temperature
Ports	5-Sensor ports/1-Diagnostics Port RS-485
Transmission rates	5 seconds +
Operating temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	0 to 95% Non-condensing
Power requirement	3.6 VDC battery pack
Base	316L SS
Base mounting	Magnetic base, Unistrut mount
Sensor cable connection	Six-pin amphenol style
Weight	2.95 kg (6.50 lbs)

\*Typical configuration:

1. Vibration and temperature
2. Vibration and temperature
3. Pressure
4. Pressure
5. 4/20 mA

Other configurations available upon request.

## Optional Add-in Sensor Specifications

RTD	1,000 Ohm (Platinum, two-wire)
Pressure	Vacuum to 10,000 psi (specific sensor for each range)
Vibration	Single-axis (0 to 1 ips, 0 to 25 mm/sec) at 6 to 1,000 Hz
Discrete	Dry contact only
4/20 mA	Input

Consult factory for possible configurations.

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