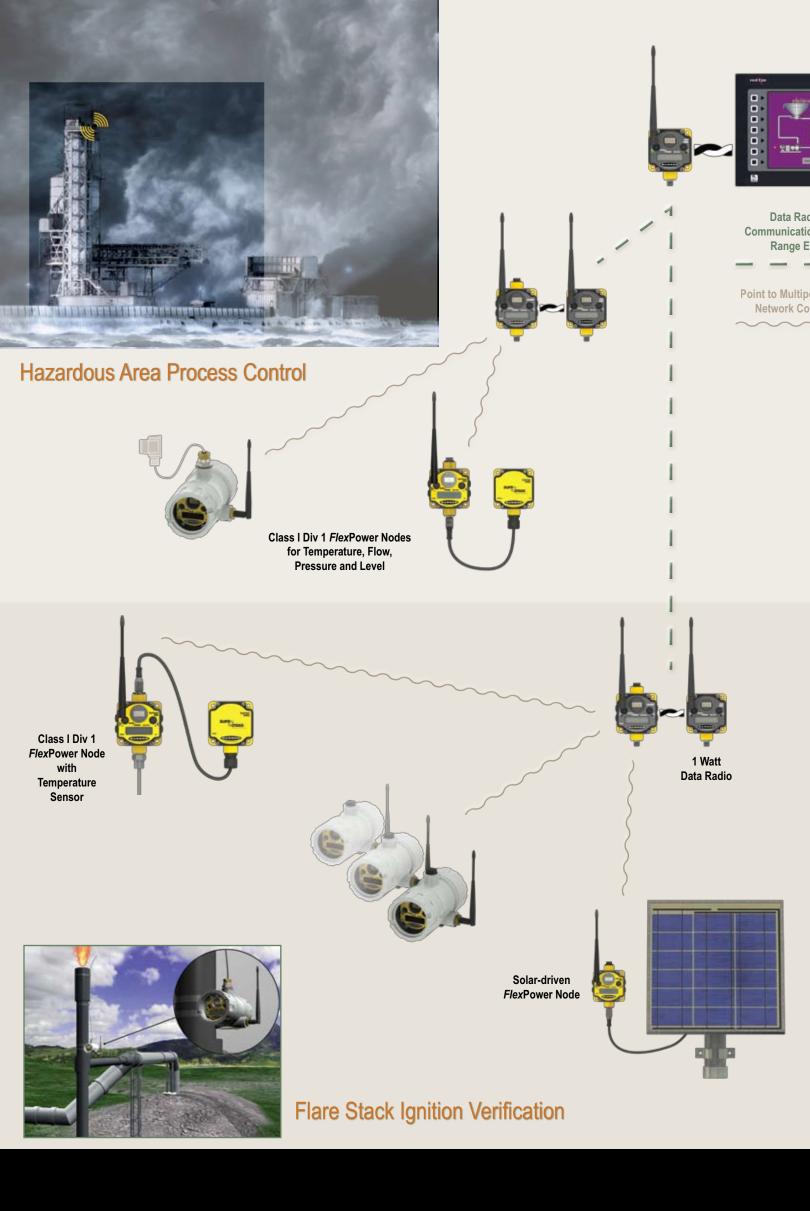
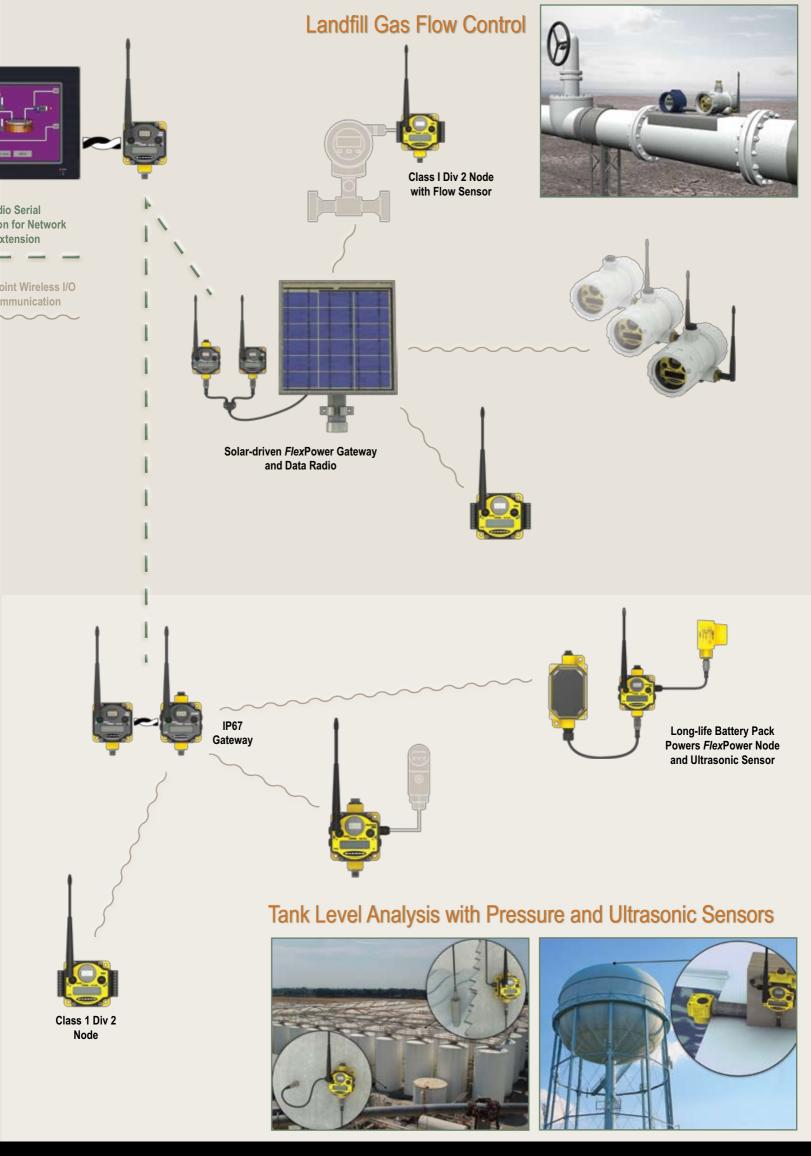
Worldwide service and support. Banner is a global leader in process and factory automation, helping customers increase efficiency, reduce costs, ensure quality, monitor and control processes, and safeguard employees.

wireless innovat/on.

- Analog, Discrete, Temperature and Serial I/O
- Transceiver pairs to replace a single signal cable
- Scalable networks collect thousands of signals
- FlexPower™ options include battery, solar and DC
- Integrated Site Survey for wireless link status
- 900 MHz and 2.4 GHz license-free radio
- Multi-layer security protocol
- IP67, Intrinsically Safe and Class I Div 2 models









sensing unplugged.™



Greenhouse Temperature and Humidity Monitoring

To ensure optimum performance and plant growth, a greenhouse environment must be maintained at specific temperature and humidity levels. A SureCross *Flex*Power Node with internal battery directly connected to a temperature and relative humidity sensor can provide these measurements without costly conduit or cabling.



Tank Level Analysis

With a SureCross Wireless Network, FlexPower Nodes are deployed at each tank without the need to run cables for power or I/O data. Banner's unique power management capability enables a Node equipped with a T30UF ultrasonic analog level sensor to operate for years on a single DX81 battery power supply. Remotely located tank sensor readings can be forwarded to a host system for data tracking or to trigger events, such as refilling the tank.



Compost Temperature Measurement

To efficiently compost waste, regular temperature readings are required from the compost pile or windrow. Eliminate time consuming manual data collection using a SureCross Node equipped with a thermocouple to automatically monitor the temperature of compost deposits. Temperature sensor readings are wirelessly transmitted back to the Gateway or host system for data collection, analysis and logging.

Frost protection and Soil Moisture Control in Cranberry Bogs

A FlexPower Node with analog inputs and SDI-12 interface for a soil moisture probe is mounted on a stake driven into the ground near cranberry bushes. A thermistor connected to the analog input on the FlexPower Node monitors soil or ambient temperatures. Moisture content and temperature data is wirelessly transmitted back to a Gateway, which is connected to a motor controller using Modbus RTU. When established environmental conditions are satisfied, the motor automatically starts to maintain optimum soil moisture levels and temperatures. Additional nodes may be added to actuate irrigation valves if needed.







SureCross Industrial Wireless I/O Network Brochure (P/N 131620)

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