

# (((R)))BEAM™ DX 80

## Wireless sensing from the Sensor Expert.

**NEW!**



- Accepts all sensor inputs, digital and analog.
- Install where conduit is not practical.
- Radio operates on reliable 902 to 928 MHz Frequency Hopping Spread Spectrum (FHSS) platform.
- Full RX/TX communications between gateway and sensor nodes.
- DIN-rail or machine mountable.
- Plug and play quick disconnect options for easy system setup.
- Simple network configuration software.

RF by **SENSONIX**

[bannerengineering.com](http://bannerengineering.com)

### **Banner knows sensing.**

- With nearly 40 years of sensor development and application expertise, Banner can truly offer you a superior wireless sensing solution.
- Millions of sensors installed Worldwide.
- Thousands of Photoelectric, Ultrasonic and Vision sensor designs to our credit.
- Experienced factory application engineers to solve your sensing challenges.
- More than 2,000 factory trained field representatives Worldwide.

### **Process, factory, commercial and traffic applications.**

- Access hard to reach locations.
- Flexible: accommodate digital and analog I/O in a single unit.
- Expandable: easily retrofit or add to existing systems, tap into existing power options as well.



### **A true wireless system with on-board battery or line power.**

- Advanced battery-power management makes your existing sensors truly wireless.
- Reliable 5-year battery life.
- Configure "over the air" from a centralized location.



### **Powerful, rugged, reliable and affordable.**

- Operates on state-of-the-art FHSS wireless protocol.
- Radio output up to 150mW.
- Available with internal, external or remote antenna.
- Rated NEMA 6P, IP67 for challenging environments and outdoor applications.

[www.bannerengineering.com/dx80](http://www.bannerengineering.com/dx80)

**1.866.816.5184**



# (((R)))BEAM™: The most versatile wireless sensing & measurement system.

## Continuous monitoring without wires or conduit.



R-BEAM™ allows you to capture and transmit both digital and analog data in a wireless sensor network. It accepts all digital inputs plus process values including temperature, level, pressure, flow and distance.

## Operates independently or with a PLC or Control System.

The flexible input, output and communications options of the R-BEAM Gateway allow easy interface to external control systems. It can also operate independently with it's own configurable logic. Configuration software gets you up and running quickly.

## Local LCD display.

R-BEAM Gateway and Sensor Nodes include an LCD display that gives you immediate access to measured process data. Utilizing on-board switches, the display can also be used to configure network nodes and sensors.

## Easily retrofit or expand your existing system.

Now you can retrofit or expand your process or control network quickly without wiring, conduit or extensive labor.

## Bi-directional communications.

Full receive and transmit RX/TX communications between R-BEAM Gateway and Sensor Nodes allows radio link validation and error checking, with both sensing and actuation on the same wireless network.



## DX80 Gateway and Nodes fulfill your application requirements.

### Analog & Discrete Outputs

4-20mA, 0-10V & others  
Sinking/Sourcing

### Communications

Multiple network & protocol options including:

- Modbus
- TCP/IP
- RS485/RS232
- Ethernet 10/100 Base-T

### DX80 Gateway



### DX80 Nodes

### Analog Inputs

- Temperature
- Level
- Pressure
- Flow
- Distance
- 4-20mA, 0-10V & others

### Discrete Inputs

- Photoelectric Sensors
- Ultrasonic Sensors
- Inductive Sensors
- Capacitive Sensors
- Contact Closure



[www.bannerengineering.com/wireless](http://www.bannerengineering.com/wireless)



**Banner Engineering Corp.**  
9714 Tenth Avenue North • Minneapolis, Minnesota 55411 • (763) 544-3164 • Fax: (763) 544-3213  
Toll Free 866-816-5184 [www.bannerengineering.com](http://www.bannerengineering.com) • e-mail: [sensors@bannerengineering.com](mailto:sensors@bannerengineering.com)