

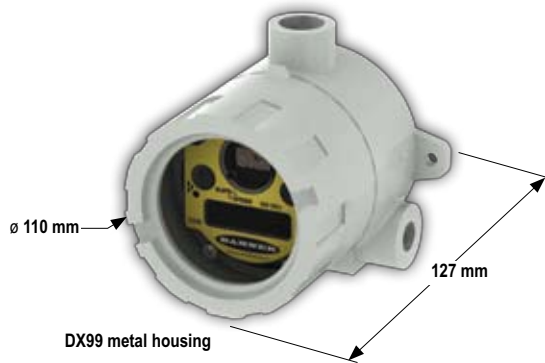
# SureCross™ DX99

## Intrinsically Safe FlexPower™ Nodes

- The DX99 is a state-of-the-art combination of wireless communication, battery technology and intrinsically safe electronics
- All models are certified for operation in Class I Division 1 and ATEX Zone 0 locations
- Discrete, analog and temperature input types are available
- Battery power supply provides power for third-party 4-20 mA and NAMUR process sensors
- DX99 Nodes are designed to work with DX80 Gateways installed beyond the hazardous area
- DX99 FlexPower Nodes are available in two different housing materials: metal and polycarbonate
- Banner is working on expanding the I/O options for our DX99 product line; visit [bannerengineering.com](http://bannerengineering.com) for the most up to date models



## ACCESSORIES



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### DX99 Nodes, FlexPower™—Class I, Div 1 and Zone 0 (Metal Housing)

	Frequency	Boost Power	Certifications	I/O	Metal Housing Models*	
	900MHz	18V	Class I, Division 1, Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1 Ex ia IIC T4 AEx ia IIC T4	<b>Discrete:</b> Two selectable inputs <b>Analog:</b> Two inputs (0-20 mA)	DX99N9X1S2N0M2X0D2	
	2.4GHz				DX99N2X1S2N0M2X0D2	
	900MHz	10V			DX99N9X1S2N0M2X0D1	
	2.4GHz				DX99N2X1S2N0M2X0D1	
	900MHz	18V		<b>Discrete:</b> Two selectable inputs <b>Analog:</b> Two inputs (0-10V dc)	DX99N9X1S2N0V2X0D2	
	2.4GHz			DX99N2X1S2N0V2X0D2		
	900MHz	10V		<b>Discrete:</b> Two selectable inputs <b>Thermocouple:</b> Three inputs, one thermistor CJC input	DX99N9X1S2N0V2X0D1	
	2.4GHz			DX99N2X1S2N0V2X0D1		
	900MHz	N/A		LCIE/ATEX Zone 0 (Group IIC) and Zone 20 (Group II) II 1 GD Ex ia IIC T4 Ex iaD 20 IP68 T82°C	<b>Discrete:</b> Two selectable inputs <b>RTD:</b> Four three-wire inputs	DX99N9X1S2N0T4X0D0
	2.4GHz				DX99N2X1S2N0T4X0D0	
	900MHz	N/A		2 Bridge inputs 2 Discrete Sinking inputs		DX99N9X1S0N0R4X0D0
	2.4GHz					DX99N2X1S0N0R4X0D0
	900 MHz	N/A				DX99N9X1S2N0B2X0D0
	2.4 GHz					DX99N2X1S2N0B2X0D0

\* To order the internal antenna models replace the S as the 9th digit with a W. For example, DX99N9X1S2N0M2X0D2 is the external antenna model and DX99N9X1W2N0M2X0D2. Metal housing models are only available with external antennas and are powered by a 3.6V D cell lithium battery integrated into the housing. Mounting and intrinsically safe antenna installation accessories are available for the metal housing models.

# SureCross™ DX99 Specifications

General	
<b>Power</b>	<b>FlexPower:</b> 3.6 to 5.5V dc low power option
<b>Power Consumption</b>	Application dependant
<b>M5 Fasteners Max. Tightening Torque</b>	0.56 N·m (5 in·lbf)
<b>Case Material and Weight</b>	<b>Metal Housing:</b> 2.23 kg (4.9 lb.)
<b>Indicators</b>	Two LED, bi-color
<b>Switches</b>	Two Push Buttons
<b>Display</b>	Six Character LCD
<b>External Cable Glands</b>	Four PG-7 type, One 1/2" NPT type (Poly) & Metal: 2 1/2" NPT, 1 3/4" NPT-M36
<b>Cable Glands Max. Tightening Torque</b>	0.56 N·m (5 in·lbf)
Environmental	
<b>Environmental Rating</b>	<b>Intrinsically safe, metal housing:</b> IEC IP68
<b>Operating Temperature</b>	-40 to +70° C
<b>Operating Humidity</b>	95% max. relative (non-condensing)
<b>Radiated Immunity</b>	10 V/m, 80-2700 MHz (EN61000-6-2)
<b>Shock and Vibration</b>	IEC 68-2-6 and IEC 68-2-7 <b>Shock:</b> 30g, 11 millisecond half sine wave, 18 shocks <b>Vibration:</b> 0.5 mm p-p, 10 to 60 Hz
Reference DX80 for Radio & Antenna specs (p. 394)	
<b>Certifications</b>	<p><b>DX99, Intrinsically Safe, Metal Housing</b></p> <p>Class I, Division 1, Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1 Ex ia IIC T4 AEx ia IIC T4</p> <p>LCIE/ATEX Zone 0 (Group IIC) and Zone 20 (Group II) II 1 GD Ex ia IIC T4 Ex iaD 20 IP68 T82°C</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>SPC<sup>®</sup> C US</p> </div> <div style="text-align: center;"> <p>Certificate 2008243(LR 41887)</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;">  <p>Ex</p> </div> <div style="text-align: center;"> <p>Certificate LCIE 08 ATEX 6098X</p> </div> </div>

- Photoelectrics Sensors
- Fiber Optic Sensors
- Special Purpose Sensors
- Measurement & Inspection Sensors
- Vision
- Wireless**
- Lighting & Indicators
- Safety Light Screens
- Safety Laser Scanners
- Fiber Optic Safety Systems
- Safety Controllers & Modules
- Safety Two-Hand Control Modules
- Safety Interlock Switches
- Emergency Stop & Stop Control

- WIRELESS**
- DX70
- DX80
- DX99
- MultiHop
- Ethernet Radio