DXMR90 Industrial Controller





IIoT Enabling Industrial Controller

- Configurable industrial controller works with a wide range of Serial devices
- Internal logic controller with simple action rules for programming, logging, and data manipulation
- Compact housing saves space and weight compared to traditional block style form factors
- Rugged IP67/IP68 housing provides simplified installation by eliminating the need for a control cabinet
- Four dedicated master ports for concurrent communication to four independent networks for faster response times



more sensors, more solutions

DXMR90



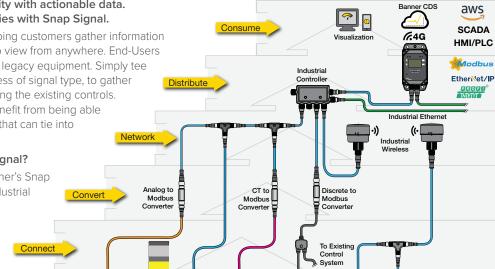
🕲 SNAP **SIGNAL**

Improve productivity, quality, and reliability with actionable data. Build smart machines and smarter factories with Snap Signal.

Snap Signal products are plug-and-play, helping customers gather information from their equipment and making it simple to view from anywhere. End-Users can use it as an overlay to harvest data from legacy equipment. Simply tee into existing devices using a splitter, regardless of signal type, to gather enriched machine-level data without disturbing the existing controls. Machine Builders and System Integrators benefit from being able to add monitoring technology to equipment that can tie into any upstream system for data visualization.

Where does the DXMR90 fit into Snap Signal?

The DXMR90 is a central component of Banner's Snap Signal system for device monitoring. This Industrial Controller houses a processor that receives signals from sensors and other connected devices, through four dedicated Modbus ports. As a centralized hub, the DXMR90 combines all of these signals into one unified stream of insightful diagnostic data which can be exported out through industrial Ethernet protocols.



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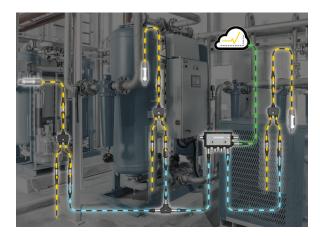
Serial

Modbus

aws

SCADA

<u>PROFI</u> NET

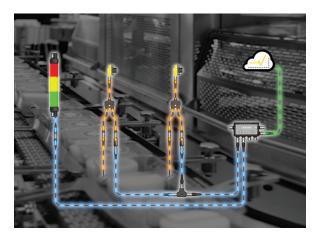


Tap into Pressure Sensor Data for Immediate Insights

- Monitor system pressure at various locations in real-time
- Use active monitoring to quickly identify potential failures or leaks
- Combine incoming pressure sensor information for a comprehensive data stream to the cloud

Maximize Throughput and Reduce Downtime by Harnessing Sensor Data from Your Equipment

- Monitor production throughput and performance using existing sensors and Snap Signal converters
- Calculate OEE metrics, such as availability, performance, and quality, locally
 on the DXMR90 industrial controller
- Send actionable data to the cloud directly from the DXMR90



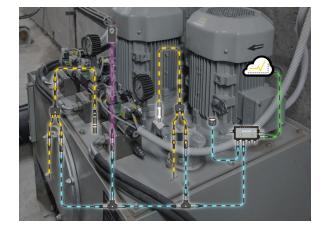


Provide Real-Time Tank Level Monitoring Data to Efficiently Manage Inventory

- Connect existing ultrasonic or radar tank-level sensors
- Monitor tank volume and make decisions at the sensor level with the DXMR90
- Send actionable tank-level data and alerts to Banner CDS

Keep Hydraulic Power Units Running at Peak Performance

- Add Snap Signal converters to sensors measuring any machine condition, such as pressure, current, oil temperature, and vibration
- Send data from hydraulic machinery to the DXMR90 for real-time condition monitoring
- Set alerts locally or in the cloud to respond to potential failures quickly





DXMR90 Industrial Controller

Model	Ethernet Connection	Modbus Master	Connections	Other Cor	nnections	
OXMR90-X1	One female M12 D-Code Ethernet Connector	Four female M12 connections for Modbus master connections		One male M12 (Port 0) for incoming power and Modbus RS-485, one female M12 for daisy chaining Port 0 signals.		
pecificati	ons					
			Power		12 V DC to 30 V DC	
	122 mm		Environme	ntal Rating	For Indoor Use Only IP65, IP67, NEMA 1,	
	BANNER)	63.5 mm	Operating	Conditions	-40 °C to +70 °C (-4 90% at +70 °C maxir (non-condensing)	40 °F to +158 °F) mum relative humidity
			Storage Te	mperature	-40 °C to +80 °C (-4	40 °F to +176 °F)
		Se	Connectior		Five integral E pip M	412 formula and all all and a state
				ns	One integral 4-pin M	112 female quick disconnect 112 male quick disconnect 112 female D-Code quick discon
Dn-board Pro Scripting – N	gramming and Aicro Python,	odbus el Ethernet – t/IP, ProfiNet,	Logic and Math operation		One integral 4-pin M	Al2 female quick disconnect Al2 male quick disconnect Al2 female D-Code quick discon Cloud Connectivity – Banner CDS, AWS IoT Core
Dn-board Pro Scripting – N	gramming and Aicro Python,	odbus	+- ×=		One integral 4-pin M One integral 5-pin M	112 male quick disconnect 112 female D-Code quick discon
On-board Pro Scripting – N Script	gramming and Micro Python, Basic Mod	odbus el Ethernet – t/IP, ProfiNet,	+- ×=		One integral 4-pin M One integral 5-pin M	112 male quick disconnect 112 female D-Code quick discon
Dn-board Pro Scripting – N Script	gramming and Micro Python, Basic Mod	edbus de to	Logic and Math opera	ations a	One integral 4-pin M One integral 5-pin M	Al2 male quick disconnect Al2 female D-Code quick discon
On-board Pro Scripting – N	gramming and Micro Python, Basic Hond STP-M12D-406 1.83 m (6') STP-M12D-415 4.57 m (15') STP M12D 420	de to Ethernet*	Logic and Math opera	eaded M12 C nded 406SS 412SS 2')	One integral 4-pin M One integral 5-pin M	M12 male quick disconnect M12 female D-Code quick discon Cloud Connectivity – Banner CDS, AWS IoT Cord

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Banner Engineering Corp.

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