

Extreme Telematics Corp.

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EXTREME TECHNOLOGY FOR *EXTREME* CONDITIONS

ECONOMICAL WIRE REPLACEMENT

Designed to replace traditional wire and trenching with plug and play equipment, Iris is a cost-effective, easy to use system that safely enables up to 2 switches per node to be powered and relayed back to a panel-mounted gateway up to ½ mile away.

INTERFACE FLEXIBILITY

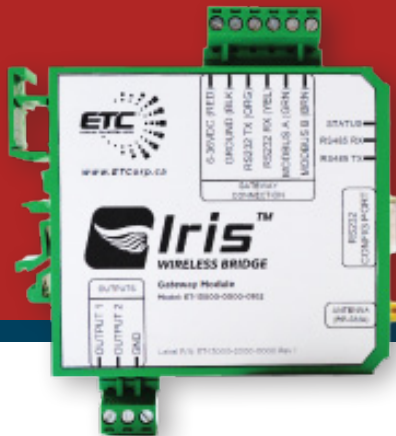
The current state of up to 2 switches and a Modbus device connected to each node can be read from the gateway using the integrated Modbus Slave interface. The Iris Gateway can connect to up to 240 nodes, offering ultimate versatility for a variety of system configurations and applications. Additional nodes are available with a range of sensor interfaces including Analog, HART, Modbus, RTDs and Turbine Meters. Configuring Iris is fast, easy and convenient with Vision software. Contact ETC for more information.

SAFE OPERATION

DIN rail mounted Gateway modules are Class I, Div 2 certified for safe operation with your preferred control system. Nodes are Class I, Div 1 certified, providing full flexibility for a variety of safe installation locations.



REPLACE TRADITIONAL WIRE & TRENCHING WITH *PLUG AND PLAY* EQUIPMENT.



RUGGED & RELIABLE

Iris Wireless Bridge Nodes and Gateway are designed to reliably communicate from a distance up to ½ mile using omnidirectional weather resistant antennas. Designed for stable performance in even the most extreme conditions, Iris operates within a temperature range of -40°C to +60°C (-40°F to +140°F). The circuit board is conformal coated during manufacturing to prevent corrosion from chemicals and moisture in the atmosphere over

time, increasing longevity. In addition, Iris Nodes feature long-lasting, field replaceable lithium battery packs with an average life span of more than 4 years. A solar option is also available for Iris Nodes; this economical solar panel with integrated battery and charger removes the need for battery replacement and allows for operation with devices requiring higher power draw, such as ETC's Sasquatch plunger velocity sensor.



The Iris Wireless Bridge provides the ability to use Cyclops plunger arrival sensors in applications where wire is not an economically viable or easily attainable option. Installation is quick and easy; Simply terminate Cyclops to the Iris Wireless Bridge Plunger Sensor Node and connect the outputs on the Gateway to any standard control system.

To get more out of your Iris Wireless Bridge at a single well site, connect an additional switch to the second discrete input to wirelessly monitor pressures or tanks. For use in multi-well applications, connect up to two Cyclops sensors per Node, or use the Modbus interface with additional nodes to expand the number of linked devices.

SPECIFICATIONS

WIRELESS GATEWAY

Supply Voltage	6 V DC - 36 V DC
Radio Power	500 mW
Switch Interface	2 x Dry contact discrete outputs
Communications Interface	RS-485 Modbus RTU Slave
Operating Temperature	-40°C to +85°C (-40°F to +185°F)
Certification	Class I, Division 2, Non-incendive, Temp Code T5, Groups C&D
Humidity	0-100% condensing
Antenna Type	Omnidirectional
Antenna Gain	5 dB
Receive Sensitivity	-105 dB
Range	3 miles
Frequency	902-928 MHz license-free ISM band compliant with FCC Part 15
Nodes	Up to 240 separate nodes
Networks	Up to 64 separate networks
Internal Diagnostics	Line voltage, signal strength, error conditions event logging
Enclosure	DIN rail mounted

PLUNGER SENSOR NODE

ANALOG SENSOR NODE

Sensor Power	5.3 V or 7.6 V	13.5 V (4-20 mA) 12.5 V or 18.5 V (1-5 V)
Sensor Interface	2 x Dry contact discrete inputs	4-20 mA or 1-5 V
Communications Interface	RS-485 Modbus RTU Master	N/A
Operating Temperature	-40°C to +60°C (-40°F to +160°F)	-40°C to +60°C (-40°F to +160°F)
Certification	Class I, Division 1, Intrinsically Safe, Temp Code T5, Groups C&D	Class I, Division 1, Intrinsically Safe, Temp Code T5, Groups C&D
Humidity	0-100% condensing	0-100% condensing
Transmit Power	40 mW	40 mW
Range	1/2 mile	1/2 mile
Antenna Type	Internal weather resistant, omnidirectional	Internal weather resistant, omnidirectional
Antenna Gain	5 dB	5 dB
Receive Sensitivity	-109 dB	-109 dB
Frequency	902-928 MHz license-free ISM band compliant with FCC Part 15	902-928 MHz license-free ISM band compliant with FCC Part 15
Connection	1/2" NPT Port	1/2" NPT Port
Power	Lithium battery pack, field replaceable	Lithium battery pack, field replaceable
Battery Life *not applicable with solar option	4+ Years	1 - 10 Years
Reporting Period	1 second	User Configurable
Internal Diagnostics	Battery voltage, signal strength, error conditions	Battery voltage, signal strength, error conditions