

NoWire - model 2100



NOWIRE - MODEL 2100

Wirelessly records and displays meter readings for small to medium sized properties. Industry proven wireless technology by Inovonics eliminates the need for long and costly wiring installation to the meters. NoWire™ provides onsite meter reading via the front panel LCD display and on the cloud via the MeterData™ portal.

WIRELESS TRANSMITTERS

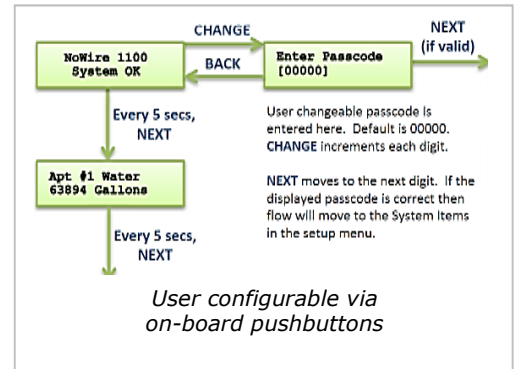
Up To 32 wireless transmitters can be read by NoWire™. To read water, electric or gas meters the meter pulse output is attached to a pulse transmitter. Temperature, humidity, and analog input transmitters are also available. No FCC license is required for these battery operated transmitters. The transmitters were designed by Inovonics specifically for multifamily properties and are currently installed in literally millions of apartment units.

EASY INSTALLATION

To install a NoWire™ system, simply connect the meter pulse wires to the Inovonics transmitters. After connecting power to the NoWire™ wireless gateway, the information for each meter is then scrolled through on the display and is available for remote access online via MeterData™.

FEATURES

- 32 wireless input points. 4 wired pulse input points.
- Supports pulse and encoded meters, Temperature, Humidity, 0-5V, 0-10V, and 4-20mA analog signals.
- Individual meter status and alerts including: Leak, Non-advancing, Transmitter not seen, Low battery, Transmitter tamper, etc.
- Built in Ethernet and Wifi for remote internet access to readings and consumption via MeterData™. Optional cell connection available.
- Meter readings, analog data, and status also available via Modbus RTU RS485 for connection to data loggers or building management systems.
- Have us configure NoWire™ for you so all you need to do is attach it to the wall and plug it in for a "plug and play" experience.
- No software required. User configurable via on-board pushbuttons.



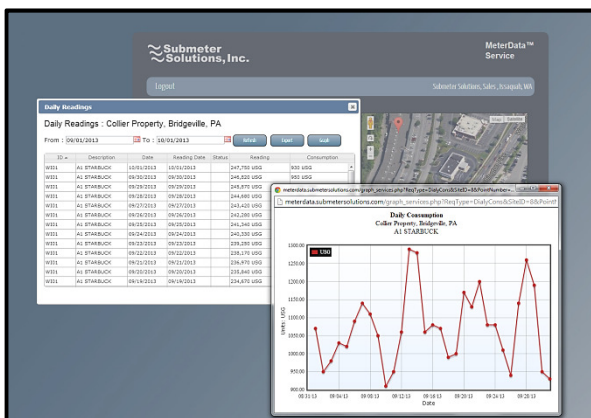
ABOUT SUBMETER SOLUTIONS

Submeter Solutions was established in 1999 in Washington State. Our business focus is manufacturing, selling, servicing, and installing meters and submetering equipment for water, natural gas, and electricity. Our offices are located in Renton, WA and support submetering projects and monthly meter reading and billing clients across the US.

We are a distributor for a full range of metering products that are sold via our on line store at

SubmeterSolutions.com

MeterData™ Remote Meter Data Portal



Free remote access to your NoWire™ metering data


- Daily meter readings
- Consumption totals
- Diagnostic graphs
- Excel exports
- Daily Alert emails
- Daily meter readings emails

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NoWire_082819

NoWire™ Specifications

Main Processor	R8C/35C – 16bit embedded CPU, 20MHz
Console	2x16 backlit LCD, 4 push buttons for user configuration
LEDs	11 LEDs for status and troubleshooting
Power Requirements	120VAC Wall Transformer included, 12VDC, 1A, UL Listed 
Wired Pulse Inputs	4 dry contact or electronic, <2k ohms senses closed. 20ms pulse minimum.
Wireless Inputs	Mix of 32 pulse meters, temperature, humidity, analog inputs.
Housing	NEMA4X outdoor rated polycarbonate enclosure
Dimensions	6.73" x 4.76" x 2.17"
Protocols	RS485 Modbus RTU Slave
Remote Connectivity	Built in Ethernet and Wifi. Ethernet patch cable included. Optional Cell modem available.

Wireless Specifications

Brand	EchoStream™ is a registered trademark of Inovonics Wireless Corporation
Operating Frequency	902-928 MHz, unaffected by WiFi or 900MHz cordless phones
Modulation	Frequency hopping, spread spectrum
Transmitter Range	Open field up to 5000 ft. Typical 3 or 4 story building up to 15 to 20 units doesn't require a repeater.
Repeater	EN5040-T, -20F to 145F, 90% relative humidity
Repeater Range	Open Field up to 4 miles
Transmitter dimensions	3.57" x 1.7" x 0.85" indoor rated. Outdoor enclosure available.

Pulse & Encoded Meter Transmitters

Operating environment	-4 to 140°F, 90% relative humidity (non-cond.)
Pulse width	Closed 20ms or greater and open 50ms or greater.
Transmission interval	Once per hour, every 10 pulses, every minute when in diagnostic "Fast" mode.
EN1501	5 year battery life at 70 to 90°F. Higher temp reduces battery life.
EN1501 -XL	Calculated battery life of 10-20 years at 70 to 90°F. Higher temp reduces battery life.
EN1550 - EP	Encoder Pulse Transmitter for Neptune meters.

Signal Transmitters

EN1721 Temperature & Humidity	<u>Temperature</u> : Fahrenheit, Range: -4° to 140°F, Typical resolution 0.018°F, Typical accuracy: ±0.5°F at 77°F. <u>Humidity</u> : Range: 0 to 90%RH, Resolution 0.03%RH, Typical accuracy ±2.0%RH from 10% to 90%RH Measures every 30 sec. If value changes 5°F or 5%RH then transmits otherwise transmits every 5 minutes. Takes up two meter points in NoWire™.
EN1702 Dual Analog	<u>Inputs</u> : 4-20mA, 0-5V, 0-10V 16-bit measurement resolution, 1.0% measurement accuracy Measures every 30 sec. If value changes 0.05mA or 0.05V then transmits otherwise transmits every 5 minutes. Takes up two meter points in NoWire™.

Other Transmitters

Universal	These transmitters are supported such that when the transmitter event occurs it increments the meter counts for that input. It can be useful when assigned to NoWire™ pulse outputs to signal remote equipment that an event has occurred. EN1210, EN1215
Single Button Pendants	EN1223, EN1233, EN1235
Motion Detectors	EN1260, EN1261, EN1262, EN1265