



A.T. Monitors

A leader in leak detection and level monitoring equipment

ATI-IWS Industrial Wireless System for Monitors and Modules

Using the wireless option kit from Plexus Controls, the ATI-6107 series of monitor panels can be upgraded with an optional wireless communications kit. The wireless upgrade links a remote ATI-5029 level measurement probe to the monitor panel without any conduit or wiring.

The wireless upgrade consist of 2 parts:

1. A wireless communications card (WCC) with internal antenna that installs directly into the 6107 monitoring panel.
2. A fully integrated remote wireless system (RWS) that attaches to the 5029 depth probe through a 1/2" NPT connector and houses the radio system and batteries (2 x lithium C cells).

In addition to the 6107 system, multiple RWS units can connect to an Ethernet gateway for data logging and network enabled real time monitoring and alarms.

Long range antennas and repeaters are available if required. There are 3 operational LEDs provided to manage the wireless connectivity in the WCC:

1. System LED: Confirms the wireless system is powered. If the system LED is flashing the wireless link is down.
2. Low Battery LED: Lights when the remote system battery voltage drops below 2.3V
3. Calibration LED: Lights when a calibration routine is running

The WCC is installed in the 6107 panel and programmed with the read frequency at manufacturing. Typical battery life is expected to be 5 to 10 years depending on the read frequency.

Features and Benefits

- No signal wiring required, uses wireless link to communicate data from the probe to the 6107 monitoring panel.
- Fully integrated wireless module in 6107 system.
- Fully integrated probe radio system with internal antenna.
- Programmable read frequency.
- Lithium battery in probe wireless system for multi-year life.
- Ruggedized, UL Class 1 Div 2 rated.

Monitor Versions

ATI-6107D: Level display for 5029 probe (no alarms).

ATI-6107DA: Level display with combined HI/LO alarms.

ATI-6107GS: Level display (no alarms).

ATI-6107GSA: Level display with combined HI/LO alarms.



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Mounting and Accessibility

The ATI-RWS Remote Wireless System module is mounted directly on top of the ATI-5029 probe. To access the internals (replacing batteries), simply unscrew and remove the cover.

Warranty

One (1) year, parts and labor, subject to standard Armstrong Technologies' terms and conditions.

SPECIFICATIONS

Radio Specifications	
Wireless Topology	Auto Mesh with dynamic configuration
Frequency	2.4 GHz ISM Band
Channels	16
Hops	30 max.
Power Output	+18dBm with internal antenna
RX Sensitivity	-102 @ 10-6 BER
RF Data Rate	2Mbps
Indoor Range	up to 500m
Outdoor Range	up to 1km
Data Encryption	AES 128bit over wireless (optional)

Remote Wireless System	
Power Supply	2 x 3.6V 8500mAh C size alkaline batteries (Duracell MN1400 recommended)
Power Consumption	Transmit: 400mW Receive: 70mW Sleep: 20uA @ 3VDC
Operating Temperature	-40 to +55 °C (-40 to +131 °F)
Relative Humidity	0-100%
Wireless Certifications	802.15.4 (2.4GHz) FCC &, IC
Enclosure	Polycarbonate (grey), HxWxD: 82.6 x 82.6 x 50.8 mm (3-1/4" x 3-1/4" x 2")
Mounting	1/2" NPT Female Connector
Weight	2Lb (0.9kg) (approx.)

