



## Applications Note 1402

# Remote Wireless Monitoring via Cell Phone Network

Q: We don't have Wi-Fi at some of our remote locations. Is there an easy way to get our remote data?

A unique product is available from Novus. It comes complete with software and cloud based data acquisition software. Data is available in real time and historically. Also included is SMS Messaging to alert for alarms. (SMS Messaging is the Messaging on your cell phone that lets you tell your wife you will be late for dinner.)

This unique product makes data collection readily available where ever there is cell phone service. It may be installed in place of a Wi-Fi connection or as part of a self-contained data pod. It can be used for remote machinery health monitoring, or as part of a mobile system such as refrigeration testing for a truck. You do not have to worry about the IT department, VPN or any of those other items that can often take a large amount of coordination and set-up.

Just like your **cell phone**, the AirGate-GPRS is convenient. It can be used with a minimum of set-up, and is not dependent on your being able to connect to a Wi-Fi network. You can call it from anyplace, or it can call you.

You can even use it in your facility to **avoid the hassle of a new Wi-Fi node**. Used for testing, you set it up and go. The data will be available at your desk in minutes. You do not need to involve the IT department. When you are through, you pick it up and move to the next location.

Built into a piece of machinery, it can provide remote data for **maintenance or diagnostics** directly to your office.

Built into a **data pod**, the system can be built in your shop and set in place at the site with no additional set-up required.



As part of a **mobile application**, data is returned directly to your office without need for satellite or private radio connection, while the vehicle is moving. It works just like a cell phone.

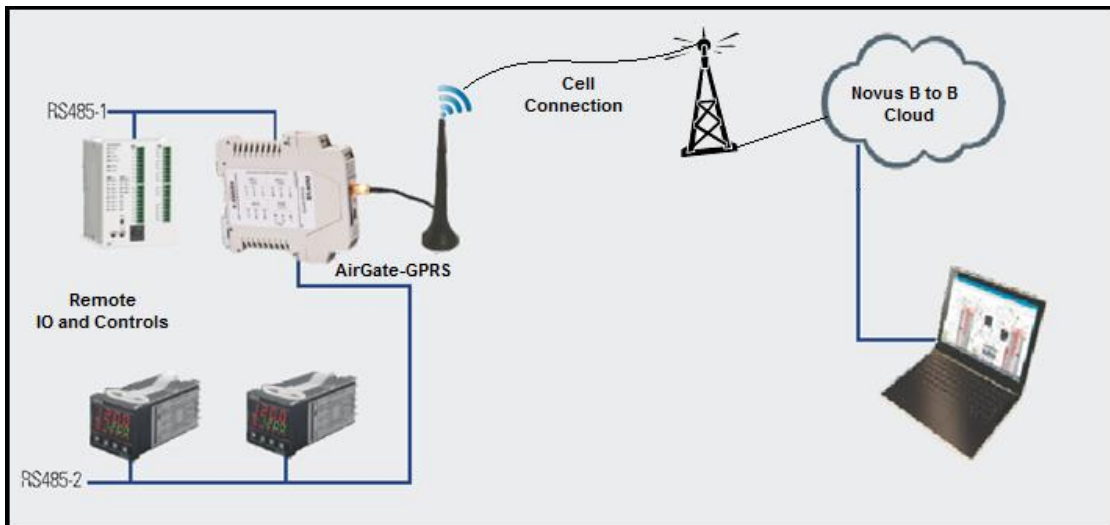
### How does it work?

**Use of the cell phone network makes connection simple and fast anywhere cell phone service is available.** Unlike setting up a Wi-Fi network, there are no approvals for a connection, coordination with installers, waiting for the IT department to provide service, VPN or any of the other frustrating requirements of remote web access. Just sit your system in place, tell it to connect, and you are done. Range is limited only by cell phone connectivity.

**Remote Data Collection** is provided through any of the Novus Data logging modules, the Field Logger, or any of the thousands of Modbus RTU compatible devices on the market. The remote network may be one point or many or points as required. TC's, Pressures, contacts, counts...all may be acquired with this easy to use system.

### Cloud Data

The AirGate-GPRS comes complete with a Modbus RTU interface. Data on the Modbus network is acquired by the Airgate-GPRS and sent over the cell network to a secure Cloud Facility. You can connect to your cloud just like any other HTML page, and view your data, or save it to a file.



**Advanced Industrial Systems, Inc.**

***The Temperature Solution***

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## SMS Messaging

Messaging provides data direct to your cell phone. Alarm Messages as well as time triggered Status Messages are available.

AirGate-GPRS (S/N  
13028555, TAG  
Remote-03) ALARM:  
Pressure < 1 bar  
Pressure too low!  
14h41, 2 mai

AirGate-GPRS (S/N  
13028555, TAG  
Remote-03):  
Pressure = 00005 bar;  
signal level = -63 dBm.  
14h40, 2 mai

**Remote Data Connection** is provided through any of the Novus Data logging modules, the Field Logger, or any of the thousands of Modbus RTU compatible devices on the market. The remote network may be one point or many or points as required. TC's, Pressures, contacts, counts...all may be acquired with this easy to use system.

<http://www.advindsys.com/DataLoggers.htm>

## Pricing

Best of all, it is reasonably priced. The AirGate hardware is \$ 649. Add \$ 228 per year for the cloud connection and approximately \$ 45 - \$ 65 per month for cell service. Pricing is as of February 2014.

For additional information contact: [Sales@AdvIndSys.com](mailto:Sales@AdvIndSys.com) .

Additional Applications Notes and Tables are available at:  
[www.AdvIndSys.com/ApplicationsNotes.htm](http://www.AdvIndSys.com/ApplicationsNotes.htm) .

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