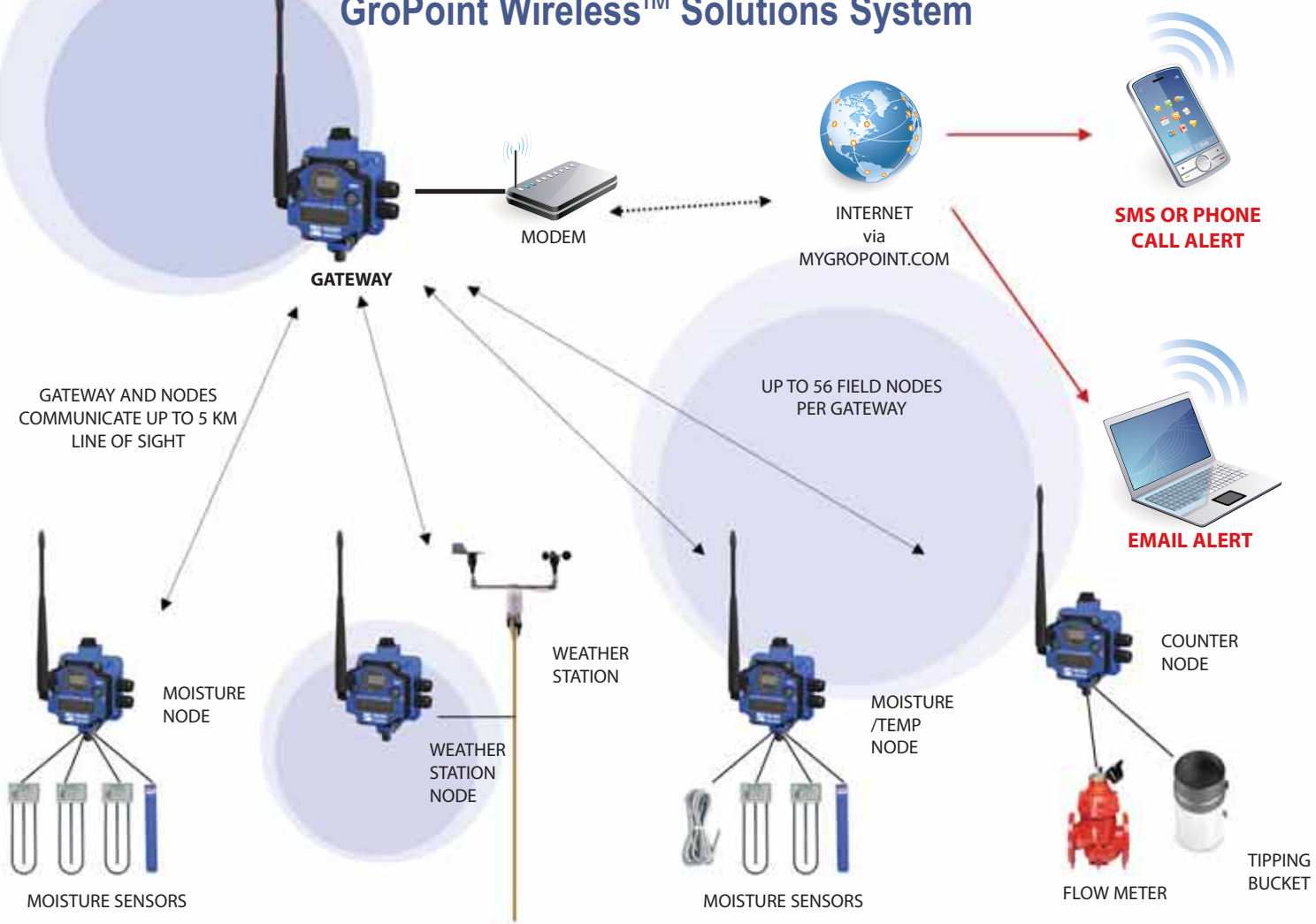


# GroPoint Wireless™ Solutions System



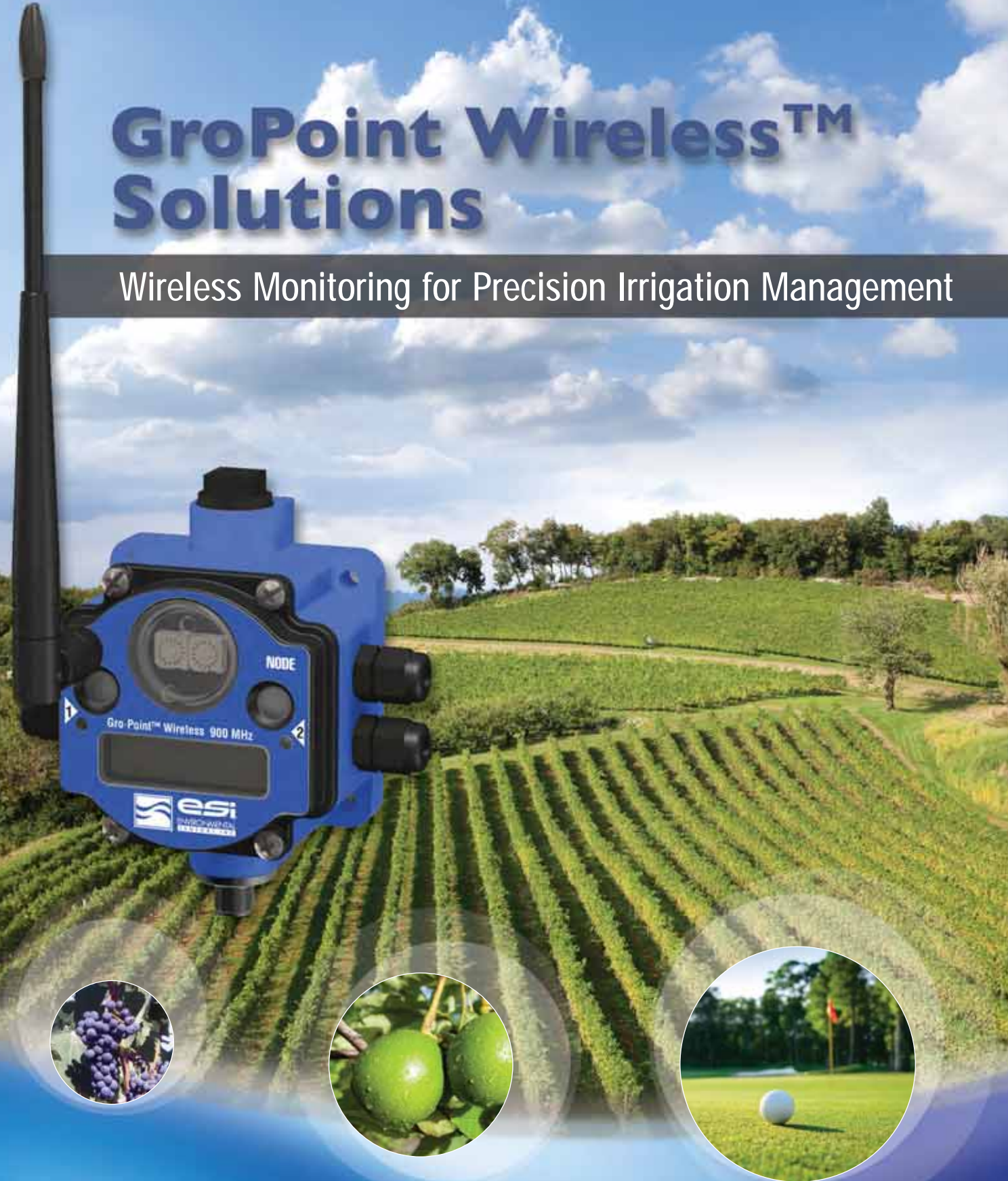
**Field Nodes:**  
 Moisture Node  
 Weather Station Node  
 Moisture/Temperature Node  
 Counter Node

**Output Controls**  
 Flow Meters  
 Pumps  
 Valves  
 Controllers

**Sensors:**  
 GroPoint™ Classic  
 GroPoint™ Lite  
 GP Thermistor  
 GP Barometric Pressure  
 GP Wind Speed Sensor  
 GP Wind Direction Sensor  
 GP Relative Humidity Sensor  
 GP Tipping Bucket Rain Gauge  
 GP Solar Radiation Sensor  
 GP Leaf Wetness  
 GP Water Level Sensor

# GroPoint Wireless™ Solutions

## Wireless Monitoring for Precision Irrigation Management



E.S.I. Environmental Sensors Inc.  
 Tel: 1.250.655.3211 • Fax: 1.250.655.3299  
 Toll Free (in North America): 1.800.799.6324  
 Email: sales@esica.com • www.esica.com



There's a lot happening below the surface™

ESI's GroPoint Wireless™ Solutions deliver accurate, timely reporting of environmental conditions from the property to a Web-based application.

### GroPoint Wireless™ Solutions

GroPoint Wireless™ makes it easy for one person to monitor large sites with diverse terrain and challenging conditions. The information provided enables growers and irrigation managers to better manage their property and equipment. All areas of a site can be monitored in real time and alarms can be set to send warnings by email, phone and SMS.

GroPoint Wireless™ is a modular and scalable system. This allows the operator to start with a small system and then expand it as needed.

## Benefits: Improving the Bottom Line

- Optimize the use of fertilizers
- Create precise irrigation application
- Increase yields
- Increase crop with better quality
- Manage operations with accurate information
- Direct labor force more efficiently and economically
- Reduce water consumption

### Quick and Easy Installation

- GroPoint Wireless™ system is easy to install and use with little effort or training.
- Field node displays signal strength and sensor readings at node site: proper physical location of field node is guaranteed.
  - Low power requirements: minimum one-year operation on included lithium battery and option for solar power
  - Plug-and-play, weatherproof and durable
  - Data transfer is immediate upon deployment
  - Radio range: up to 4 km or 2.5 miles line of sight in optimum conditions

### GroPoint Wireless™ Field Node

- GroPoint Wireless™ field nodes read up to five (5) sensors (digital - sdi12 or analog). These can be combinations of soil moisture sensors, thermistors, flow and pressure sensors and weather station instrumentation (see related GroPoint Wireless™ product technical specifications for more detail)
- Configurable sampling, alarming and reporting
  - Easy to install with local display unit to confirm operation

### GroPoint Wireless™ Gateway

- The GroPoint Wireless™ gateway is attached to the cellular modem module. It can reside at a nearby building or in the field. A repeater can be used for increased range.
- Reads up to 56 GroPoint Wireless™ field nodes
  - Output options: current, voltage, or discrete contact
  - Communicates with the majority of irrigation controllers
  - Can also read sensors directly



A new low temperature alert has been triggered. The current reading is 1.6°C (35°F). The alert is located at field node 'East Node (O.A.Temp)' in area 'Brentfield Vineyard' at site 'Sunny Side Winery'. The current alert level is Red.

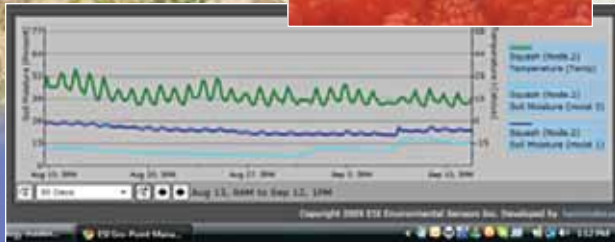
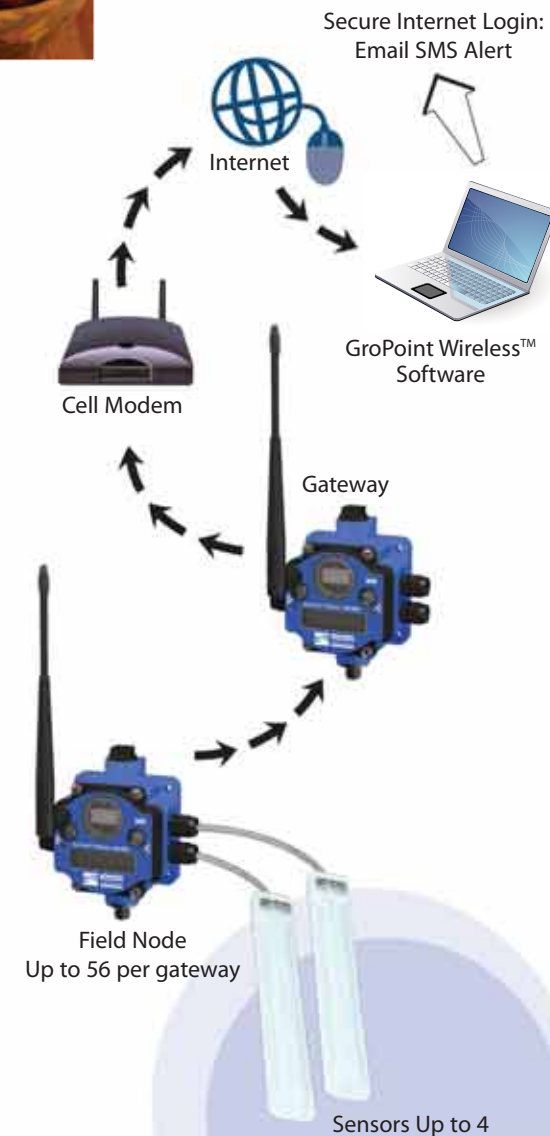


### GroPoint Wireless™ Cell Modem

- The GroPoint Wireless™ cellular modem uploads information from the field to the internet via GSM or CDMA
- Redials automatically and immediately any time the communication is lost
  - Access to data via [www.mygropoint.com](http://www.mygropoint.com) from anywhere in the world

### GroPoint Wireless™ Software and [www.mygropoint.com](http://www.mygropoint.com)

- Intuitive design, custom engineered by ESI for irrigation monitoring and management
- Data displays on desktop or laptop via [www.mygropoint.com](http://www.mygropoint.com)
- Secured internet login
- Current and historical data tracked in database and graphically to refine farm management strategy to improve bottom line
- Mapping function to get an overview and drill down to see specific sites and sensors
- All variables remotely adjustable: reporting rates, alarm thresholds, users, email, phone and SMS alerts
- Compatible with any web browser on a Windows® PC or Macintosh®
- All data downloadable for postprocessing



**Simplified installation and real time information delivered wherever you are.**