

# IRROMETER's

## SOLAR POWERED - *Wireless* - DATA LOGGING SYSTEM

### IRROmesh

*IRROmesh simplifies irrigation management  
for precision farming like never before!*

Make your field smarter with the use of world renowned WATERMARK Sensors and our NEW IRROmesh Data Logging System. IRROmesh nodes "talk" to each other on a network of transmitters that relay what you need to know for site-specific irrigation management.




- NO Batteries Required – Solar Panels on two sides – optimizes charging
- Self-Initializing – Nodes power up with initial sun exposure and associate themselves with the base receiver
- Self-Routing – Nodes route communication for maximum efficiency
- Self-Healing – Nodes will re-route themselves in case of network obstruction or interference
- Data is Recorded every 30 minutes
- Automatically Manages Power – Unique sleep/wake cycling ensures continuous reliable transfer during all light conditions
- In-Field Logging Capability
- WEB Based Data Management and Display – Store and analyze data through the Internet
- Small Size – Easy field installation

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[www.IRROMETER.com](http://www.IRROMETER.com)



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## SOLAR POWERED -Wireless- DATA LOGGING SYSTEM

### IRROMesh

**IRROMETER's IRROMesh Data Logging System** is easy to install, easy to use, small in size and provides several data retrieval options.

Nodes automatically establish a mesh network for up to 20 sensing locations. Each Relay Node sends data along multiple paths to the Base Node allowing coverage over greater distances. End Nodes provide additional measurement locations and send their data to a Relay Node to be forwarded to the Base. Data can then be transmitted to your computer and/or the WEB depending on choice of equipment.

902 - 928 MHz FHSS radio, FCC/IC certified, FCC license free to the user. Manufactured with license compliance for the US, Canada, Australia, New Zealand and ETSI countries. Patented.

ETSI 863-870 MHz. CE marked for EN 55022 Class A, EN 55024/IEC 61000-4-2, EN 55024/IEC 61000-4-3. Conforms to the following ETSI standards: EN 300 220-2 V2.3.1 (2001-02), EN 301 489-3 V1.4.1 (2002-08).

Range of signal is up to 1000 ft. (305m) for Relay Nodes and 1200 ft. (366m) for End Nodes at +10dBm, broad line of sight, when mounted on level ground at least 10 ft. (3m) high and 5 ft. (1.5m) above crops, grass, brush or foliage and has data polling intervals of every 30 minutes.

A complete system includes a Base, the desired number of Nodes with their Sensors (minimum one Relay Node required per system), and either the Logger, Cellular Gateway with Battery Pack or PC Link. Cellular Gateway and PC Link offer real-time WEB access.

*NOTE - Larger systems are available but more complex to design, contact factory for details.*

**WEB Based Data Service** — *Manages and displays data online in real time, required with Cellular Gateway and PC Link.*

- PROVIDES:**
- Secure WEB portal access to data
  - Customizable user interface
  - Overview 'snapshot' dashboard
  - Selectable charting and scales, with printable pages
  - 'Hover over' feature highlights data
  - Real-time field-system diagnostics
  - Programmable Sensor alerts via email
  - Geo-referenced data point storage with Map View
  - Logger data can also be uploaded to the WEB for shared access



**IRROMETER®**

**THE IRROMETER COMPANY, INC.**

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## Establishing a New IRROMesh System

NODES				
PART #	DESCRIPTION	PRICE	QTY	TOTAL
975NR	<b>Relay Node</b> CAPACITY FOR: 3-WATERMARK Sensors, 1-Temp Sensor, 1-Switching Gauge, 1-Rain Gauge			
975NE	<b>End Node</b> CAPACITY FOR: 3-WATERMARK Sensors, 1-Temp Sensor, 1-Switching Gauge, 1-Rain Gauge			
<b>Bird Deterrent Cover</b> option available. Indicate by adding <b>-BC</b> to Node part number when ordering.				
COMPONENTS				
975B	<b>Base</b> — Receives data from Nodes and transmits to selected data collection device.			
975SB	<b>Star Base</b> — Non-meshing version of Base for star (point-to-point) configuration. Uses only End Nodes (975NE).			
975L	<b>Logger*</b> — Used to collect data from the Base for manual retrieval and display on a laptop computer.			
975P	<b>PC Link*</b> — Desktop link to continuously stream data to the WEB portal through your computer. (One PC Link is required for each direct to computer connection.)			
975G-BP	<b>Cellular Gateway*</b> — Data transfer to Internet via Cellular Modem and 5W Battery Pack (Includes Solar Panel)			
200SS-15	<b>WATERMARK Sensor</b> — 15' (4.5m) Lead Wire (Three per node maximum) (200SS-15-S available)			
200TS	<b>Temperature Sensor</b> — 15' (4.5m) Lead Wire (One per node maximum)			
7-___-ADS	<b>Switching Gauge</b> (PSI Range choices: 15, 30, 60, 100, 200, 400)	INDICATE GAUGE PSI NEEDED 7-___-ADS		
900RG	<b>Rain Gauge</b>			
* <b>WEB Based Data Service</b> (required for 975P and 975G — optional for 975L) Manages and displays data online in real time. Payment by credit card online at WEB portal — <b>First Month FREE.</b>				
				<b>TOTAL:</b>

