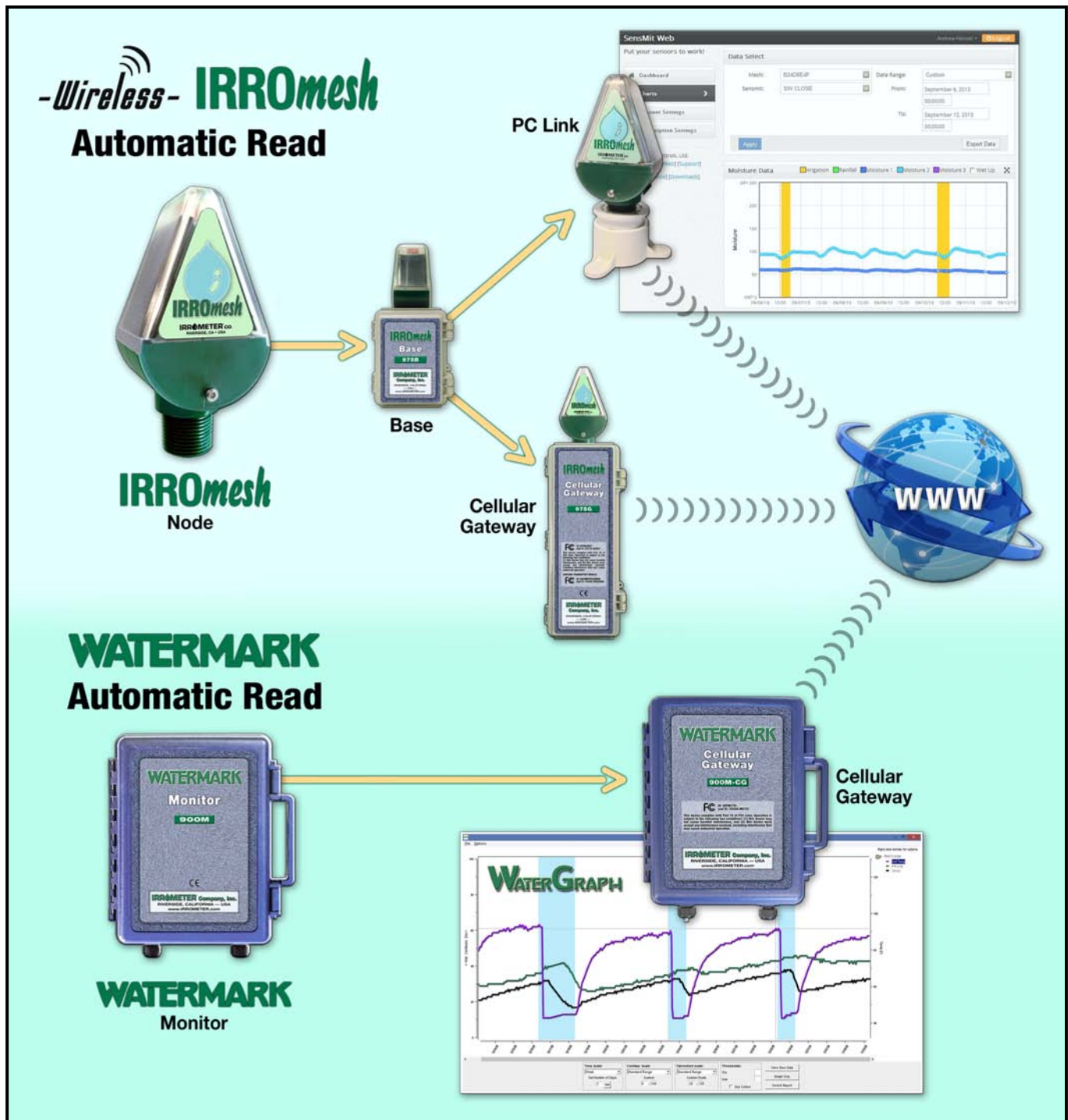


# IRROMETER®



Monitoring soil moisture data from multiple sites or remote locations is now simpler with WATERMARK Remote Data Access equipment. Advances in communication technology provide cost effective and reliable methods of improving productivity and lowering operational costs by bringing the soil moisture

data to you. The process begins when our WATERMARK Monitors (900M or IRROmesh) collect the soil moisture data. The user can then manually download the collected data in the field or use a PC Link (IRROmesh) or Cellular Gateway system to view the data from a remote location.

## Remote Access Options

The **IRROmesh** is a system of radio nodes that transmit a "line of sight" Radio Frequency (RF) signal to a base. Its performance varies with site conditions such as node height, topography, structure interference, plant canopy and electrical interference.

**Note:** Ranges referenced are for equipment licensed for use in the USA. Similar equipment is available for use in many other countries, but frequency and output power vary and range will be different. Contact IRROMETER for country specific information.

### Two Options with IRROmesh



#### PC Link – 975P

IRROmesh Radio Node without solar panels, threaded into PVC stand for desktop placement. Used as a data collection device to stream data to the WEB using your computer's active Internet connection. Connects to your Windows® OS computer via USB cable and is required to be within close range of the Base. Data service subscription charges apply.

DIMENSIONS – HEIGHT: 6 in. (152.4 mm)  
DIAMETER: 3.25 in. (82.55 mm)  
WEIGHT: 9.6 oz. (.272 kg)

COMMUNICATIONS: USB to Windows® computer  
POWER: USB connection to a computer



#### Cellular Gateway – 975G-BP

IRROmesh Radio Node, atop polycarbonate plastic housing containing a cellular modem (includes separate Solar Powered 5W Battery Pack) for outdoor installation. Used as a data collection device to automatically transfer data to the WEB through the cellular modem for viewing and storage. Cellular data coverage must be available at the Gateway location. Data service subscription charges apply.

DIMENSIONS – HEIGHT: 14.75 in. (374.6 mm)  
WIDTH: 4.5 in. (114.3 mm)  
DEPTH: 3 in. (72.6 mm)  
WEIGHT: 2.01 lb. (.912 kg)

COMMUNICATIONS: GPRS 2G Data Service.  
(3G and CDMA in development)  
POWER: Solar Powered Battery Pack

**Battery Pack** provides power source when line power is not available. Includes solar recharging panel, sealed maintenance free battery and outdoor enclosure, mounting kit and a 9 ft. (2.7 m) cable.

**Battery Packs used with:**

	IRROmesh	900 Series
MODEL	BP (5W)	BP-20W
POWER OUTPUT	12v	12v
BATTERY RATING	5Ah	7Ah
TEMPERATURE RANGE	4° to 122° F (-20° to 50° C)	4° to 122° F (-20° to 50° C)
SOLAR PANEL DIMENSIONS	12 in. tall x 8.6 in. wide x .75 in. deep (305 mm x 216 mm x 19 mm)	12 in. tall x 26 in. wide x .75 in. deep (305 mm x 660 mm x 19 mm)
BATTERY BOX DIMENSIONS	9 in. tall x 7.9 in. wide x 3.5 in. deep (197 mm x 229 mm x 89 mm)	9.4 in. tall x 7.2 in. wide x 6.2 in. deep (239 mm x 183 mm x 158 mm)
WEIGHT (COMPLETE)	8.5 lbs. (3.8 kg)	15 lbs. (6.8 kg)

The **900M Cellular Gateway** provides a dedicated cellular data connection. When used in conjunction with a Cellular Data Service, this gateway allows viewing of the soil moisture data from any Internet enabled device. Areas that have good cell phone coverage will have similar success with this technology.

**The performance of these communication systems, like many other technologies, is influenced by site conditions, infrastructure limitations, and other factors. Please consult our technical support department for recommendations regarding your specific application.**

### Cellular Gateway – 900M-CG-BP

**Cellular Gateway** mounts outdoors at the Monitor location and provides a dedicated cellular connection. Includes Gateway device mounted in an outdoor ABS enclosure with aluminum mounting plate, 20W Battery Pack and a 15 ft. (4.5 m) cable for connecting to the monitor.

OPERATING PRINCIPLE: The Cellular Gateway provides high speed cellular connectivity for wireless transmission of data collected by Monitor (900M). Uses General Packet Radio System (GPRS) technology which is well suited for data communications.

#### OUTDOOR ENCLOSURE –

DIMENSIONS: 9 in. tall x 7.9 in. wide x 3.5 in. deep (197 mm x 229 mm x 89 mm)  
WEIGHT: 1.8 lbs (.82 kg) (complete assembly)

WARRANTY: One year

#### ORDERING INFORMATION: Catalog #900M-CG-BP

SPECIFICATION INFORMATION: **Cellular Gateway** equipment shall use serial interface Quadband GPRS network to transmit data. Cellular Gateway device shall mount near the data logging device in a heavy duty outdoor rated ABS enclosure. The device shall poll the monitor hourly and upload data via the cellular connection. The device shall be the WATERMARK Model #900M-CG-BP Cellular Gateway and Battery Pack as manufactured by the IRROMETER Company, Inc. of Riverside, California.



**Battery Pack** (Included) Provides power source when line power is not available. Includes solar recharging panel with charge controller, sealed maintenance free battery and outdoor enclosure, mounting kit and 9 ft. (2.7 m) cable.

**Also Available:**

**900AC – Transformer** 100/240 VAC to 9-12 VDC plug-in style transformer, when power is available onsite.

**IRROMETER®**

**THE IRROMETER COMPANY, INC.**

1425 Palmyrita Ave., Riverside, CA 92507

(951) 682-9505 PHONE • (951) 682-9501 FAX

www.IRROMETER.com • sales@IRROMETER.com

**Irrigation**  
ASSOCIATION®  
Bronze Member