

IRROMETER®



The WEM works in conjunction with irrigation controllers to improve scheduling efficiency based on plant demand. The system will prevent irrigation cycles when the soil moisture is wetter than the adjustable set point. The device prevents valve operation by interrupting the common ground. This feature allows great flexibility in configuring the system for single valves, a group of valves (hydrozone), or the entire controller. The kit includes two soil moisture sensors. This allows for multiple placement locations, thereby averaging the soil moisture status over a larger area. Eleven moisture set points allow for a wide range of variations in plant and soil type.

Features:

- **Makes existing controllers “SMART”**
- **Can be wired to manage a single valve, a group of valves on a dedicated common, or the entire controller**
- **Suspends irrigation cycles based on soil moisture status**
- **Easy to install and use**
- **11 position switch for variations in plant demand and soil type**
- **Requires no seasonal adjustments**

WATERMARK Electronic Module — WEM

COMPATIBILITY: The WEM is compatible with 24VAC irrigation controllers* that use a common ground. The module can be used in combination with other climatic sensors (rain, freeze, etc.).

**Note: The WEM is compatible with many two-wire and central control irrigation systems. Special order versions are available for dry contact switching and serial data output, contact IRROMETER for more information.*

POWER REQUIREMENTS: Input voltage – 24 VAC

WIRE LEADS: 20 AWG x 12 in. (30 cm)

5 leads — 2 – sensor, 1 – power, 2 – switch/common

MATERIALS: ABS plastic case with encapsulated electronics for outdoor operation

DIMENSIONS –

HEIGHT: 3 in. (76 mm) – 3.875 in. (98 mm) including mounting tabs

WIDTH: 2 in. (51 mm)

DEPTH: 1.50 in. (38 mm) including knob

WEIGHT: .71 lb. (320 g) — total kit weight includes two #200SS-5 sensors

SETTINGS: OFF and 1 (wet) through 11 (dry)

200SS-5 Sensor

Specifications –

MATERIALS: ABS plastic caps with stainless steel body over a hydrophilic fabric covered granular matrix with imbedded stainless steel electrodes.

DIMENSIONS –

DIAMETER: .875 in. (22 mm)

LENGTH: 3.00 in. (76 mm)

WIRE LEADS: 20 AWG x 5 ft. (1.5 m) — 2 leads

WARRANTY: One year

ORDERING INFORMATION: **Catalog #WEM** — WATERMARK Electronic Module includes — One WEM module, two 200SS-5 sensors and instructions, in a clear plastic display package.

WATERMARK Electronic Module — WEM

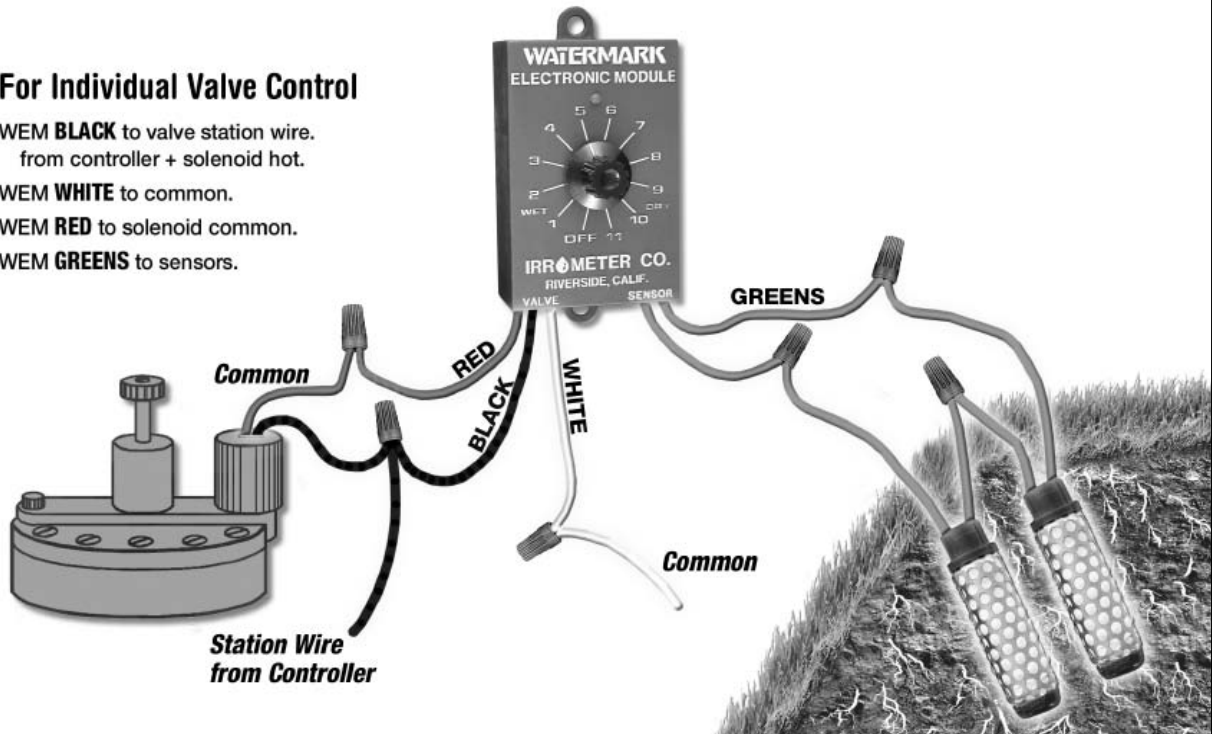
OPERATING PRINCIPLE: The WATERMARK Electronic Module works in conjunction with a residential or commercial type irrigation controller to suspend irrigation when soil moisture status is appropriate for good plant health. The included WATERMARK soil moisture sensors are placed in the root zone of the plant material being irrigated and wired to the WEM. The WEM can be used to manage a single valve, a group of valves (hydrozone), or the entire irrigation controller. When the controller attempts to activate irrigation, the WEM intercepts the signal and then interrogates the sensor for soil moisture status. If the soil is wetter than the set point, the system will prevent the irrigation cycle.

SPECIFICATION INFORMATION: The irrigation system shall incorporate a soil moisture management device designed to integrate with the irrigation controller to suspend irrigation cycles based on soil moisture status. The soil moisture management device shall be comprised of two Granular Matrix Sensors (GMS) and an adjustable electronic control module. The module shall interpret sensor readings and prevent operation of the irrigation controller when soil is wetter than desired thresholds. The module shall have an eleven position switch to accommodate plant type and soil variances. The device shall be the WATERMARK Electronic Module as manufactured by the IRROMETER Company, Inc. of Riverside, California.

WATERMARK ELECTRONIC MODULE — WEM

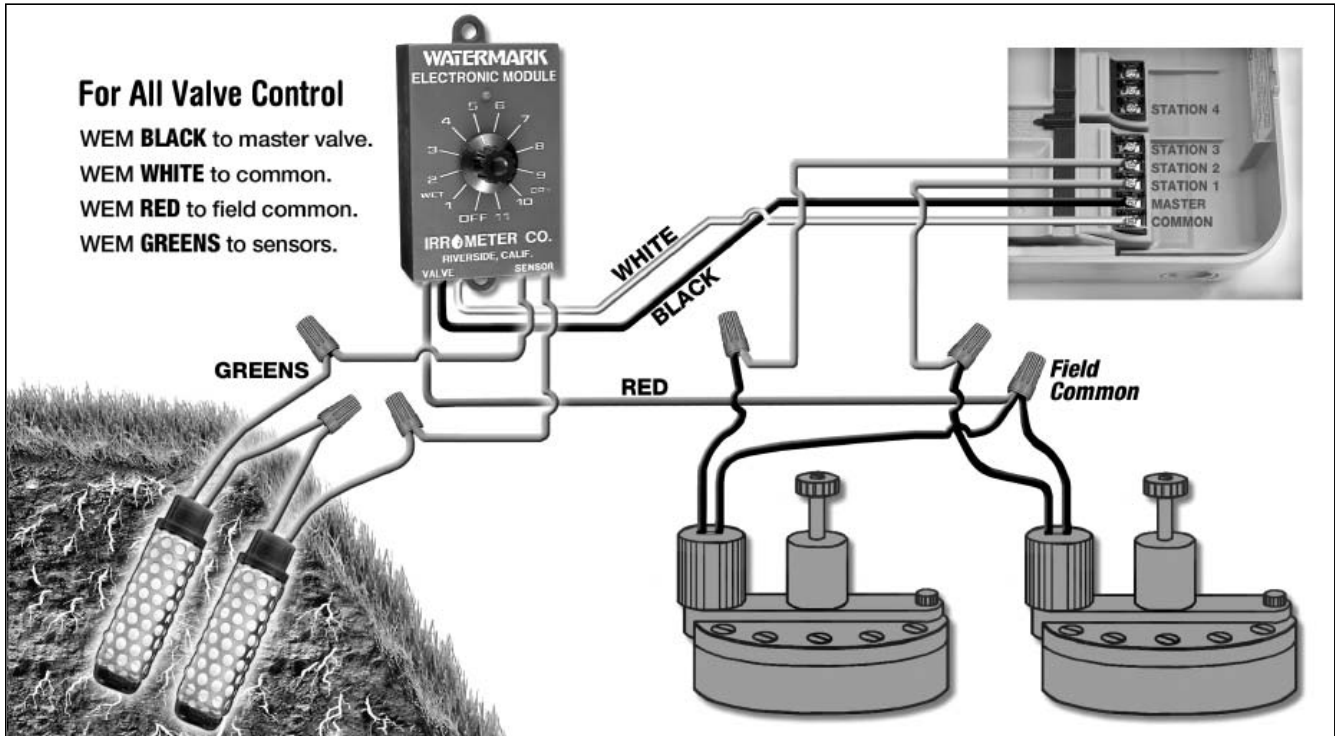
For Individual Valve Control

- WEM **BLACK** to valve station wire.
from controller + solenoid hot.
- WEM **WHITE** to common.
- WEM **RED** to solenoid common.
- WEM **GREENS** to sensors.



For All Valve Control

- WEM **BLACK** to master valve.
- WEM **WHITE** to common.
- WEM **RED** to field common.
- WEM **GREENS** to sensors.



LANDSCAPE

IRROMETER®

THE IRROMETER COMPANY, INC.

P.O. Box 2424, Riverside, CA 92516

(951) 689-1701 PHONE

(951) 689-3706 FAX

www.IRROMETER.com

sales@IRROMETER.com

Irrigation
ASSOCIATION™
Bronze Member