

# RAIN MASTER® EAGLE™ PLUS



## KEY FEATURES & BENEFITS

**The Rain Master Eagle™ Plus controller** has taken internet-based Central Control and ET-Adjustment to a new level. The Eagle Plus retains all the must-have features and benefits of the Eagle including iCentral™ cloud operations and ZipET™. The Eagle Plus provides greater functionality on a more intuitive interface to equip the user with the tools necessary to maximize irrigation efficiency and water savings. Designed with an ultra-fast micro processor, the Eagle Plus enhances "real time" irrigation control.

### **FLOW MANAGED IRRIGATION (FMI)**

An iCentral scheduling engine that optimizes irrigation system performance

### **MORE CONNECTIVITY**

Wireless cellular communications. Faster "real time" internet access to iCentral Expanded text message Smart Alerts™

### **MORE CONFIGURATIONS**

Up to 48 stations conventional configuration and 200 stations in 2-Wire configuration. Up to 16 programs (8 for conventional and 16 for 2-Wire)

### **ENHANCED USER INTERFACE**

Intuitive operation with multi-line LCD backlit display and simple multi-function input knob, plus more diagnostic tools

### **HISTORICAL DATA RETENTION**

Previous 14 days of ET values, last 25 executed program cycles and 220 Smart Alerts and alarms



[rainmaster.com](http://rainmaster.com)

# RAIN MASTER®

## NOTABLE FEATURES

- Available stations: 8, 16, 24, 32, 40, 48 conventional & 200 with 2-wire module
- 8 programs with conventional and 16 program with 2-wire
- 8 start times per program for both conventional and 2-wire programs
- NVM (Non Volatile Memory) – No batteries required
- ET-based scheduling with various options
- Stainless steel enclosures and pedestals
- Self diagnostic and monitoring
- Flow sensing
- Cycle & soak
- Odd/Even day watering
- Rain sensor input
- Lightning/surge protection is standard
- No central software required

## RAIN MASTER® ICENTRAL™ WITH EAGLE™ PLUS FEATURES

- Multi-level Auto Scheduler options maximize water savings
- ET calculations based upon Irrigation Association accepted standards
- ET scheduling utilizes industry accepted water budget methodology
- 24/7 365 days ET synchronization with ZipET™
- Secured wireless two-way communication
- Flow Managed Irrigation (FMI)
- Flow reports, daily ET information, built-in performance tools
- Smart Alerts™ Provide
  - Automated system alerts via email or text messaging
  - Automatic or manual rain shut off alerts
  - Automatic field wire fault protection and detection alerts

## MODELS

Model	Description
EGP8	EGP in painted wall mount
EGP8-S	EGP in stainless steel wall mount
EGP8-SPED	EGP in stainless steel 14 gauge pedestal
EGP8-PSB	EGP in stainless steel 16 gauge VIT strong box
EGP8-OPB	8-station expansion module kit

## OPTIONAL ACCESSORIES

Model	Description
EGP-ICENTRAL	Cellular communication kit with 60-months of iCentral service
EGP-ETHER	Ethernet communication kit with 60-months of iCentral service
RM-ISVC-5Y	Additional 60-months of iCentral service (Cellular)
RM-ISVCETHR-5Y	Additional 60-months of iCentral service (Ethernet)
PMRKIT	Permanent mount receiver kit for use with ProMax™ remote



Eagle Plus in a Rain Master security enclosure (SPED)

## ELECTRICAL SPECIFICATIONS

- **Input power required:** 120 V AC  $\pm$  10%, 50/60 Hz
- **Output power required:** 24 V AC  $\pm$  10%, 50/60 Hz, 50 VA
- **Total max load:** 1.5 A @ 24 V AC, .5A @ 24 V AC per station
- UL, CUL, and FCC approved

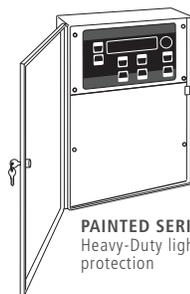
## DIMENSIONS

- **Wall Mount:** H:10 $\frac{3}{4}$ " , W:9 $\frac{3}{4}$ " , D:5 $\frac{3}{4}$ "
- **SPED:** H:35" , W:16" , D:14"
- **PSB:** H:38" , W:16" , D:15.5"

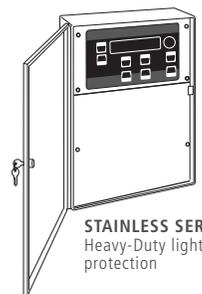
## OPERATING SPECIFICATIONS

- **Operational Temp:** 14° F to 140° F (-10° C to 60° C)
- **Storage Temp:** -22° F to 149° F (-30° C to 65° C)

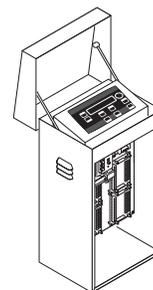
## COMMERCIAL-GRADE LOCKABLE PAINTED & STAINLESS STEEL ENCLOSURES



**PAINTED SERIES**  
Heavy-Duty lighting/surge protection



**STAINLESS SERIES**  
Heavy-Duty lighting/surge protection



**SPED**  
14 gauge stainless steel security pedestal with surge protection



**PSB**  
16 gauge stainless steel security pedestal with surge protection

# RAIN MASTER® EAGLE™ PLUS 2-WIRE

Unlike other two-wire systems, the Rain Master® 2-wire protocol provides a two-way communication link between the controller, decoders and valves. This provides the means for testing and diagnostic capabilities within the 2-wire system. The simplicity of the 2-wire field installation, coupled with the enhanced capability of the Rain Master Twice™ controllers, sets a new precedent for 2-wire control within the irrigation industry.



## MODULES

- Easy-to-read LED status indication for every command
- LED also displays valve activation and diagnostic reporting
- Troubleshooting capabilities:
  - LED decoder "active" indication
  - LED valve power "on" indication
  - Two-way communication verification

## DECODERS

- Each decoder has a unique address (programmable at the interface module)
- Decoders will automatically shut off if communication is lost
- Wire fault detection automatically shuts down any valve
- Valves can be operated up to 100' radius of the decoder

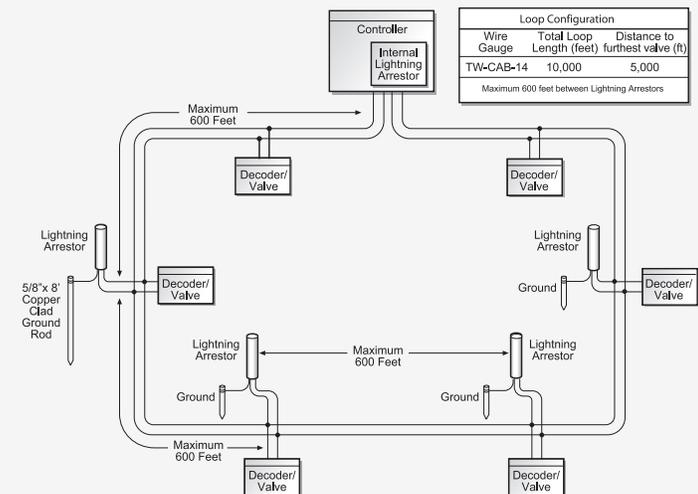
## MODELS

Model	Description
EGP-TW	EGP in painted wall mount
EGP-TW-S	EGP in stainless steel wall mount
EGP-TW-SPED	EGP in stainless steel 14 gauge pedestal
EGP-TW-PSB	EGP in stainless steel 16 gauge VIT strong box

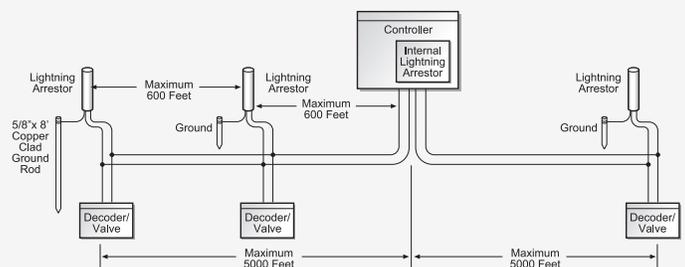
## 2-WIRE DECODERS AND ACCESSORIES

Model	Description
TW-D-1	Single valve AC decoder
TW-D-2	Dual valve AC decoder
TW-D-4	Quad valve AC decoder
TW-LA-1	Lightning arrester (every 600 feet)
TW-SPLICE-14	14-gauge water-tight connectors
TW-CAB-14	14-gauge (red/black) Polycoated (blue) wire

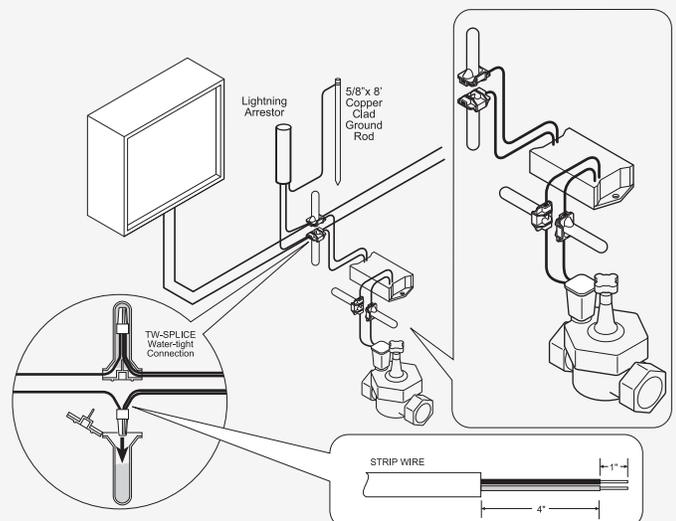
## LOOP CONFIGURATION



## STRAIGHT LINE CONFIGURATION



## WIRE CONNECTION DETAIL



# RAIN MASTER® iCENTRAL™

The patented Rain Master iCentral is the first, most comprehensive and affordable web based water management system. It allows wireless central control for one or more Rain Master Eagle™ and Eagle™ Plus irrigation “field” controllers. The iCentral website utilizes reliable 2-way wireless communication from the internet to interface with each field controller and provides alert notifications for a variety of system conditions. An entire irrigation system, no matter how large, can be managed through iCentral.



## NOTABLE FEATURES

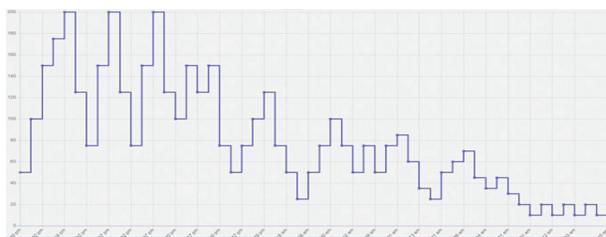
- Automatic Irrigation Scheduler (AIS) determines the optimal irrigation schedule based on seasonal, site-specific parameters: irrigation efficiency, soil texture, plant type, slope, precipitation, etc.
- Flow Managed Irrigation (FMI) calculates irrigation schedules based on available flow and water window.
- Designed as a Progressive Web Application (Web App) for a better mobile experience.
- Intelli-Sync™ - Intelligent synchronization monitors changes made at the controller and allows the iCentral operator to accept or reject the entry.
- ZipET Just enter the local zip code once, and local weather information is automatically sent to each controller every day.
- Full mobile compatibility with smart phones and tablets.
- Smart Alerts™ are sent by iCentral for all field alarms generated when a “fault” occurs; text messages are sent to cell phone and/or email address.
- Automatic initiation of “rain shutdown” to all controllers if iCentral determines that precipitation in a designated area necessitates a shutdown.
- Automatically modifies irrigation schedules based upon daily ET, as well as plant watering requirements.
- Variety of reports are available to show online and field activity, permitting detailed analysis of your system’s efficiency.

## ANNUAL WATER SAVINGS\*



\* Depicted annual water savings only. Individual site water savings may vary depending on programming and operational characteristics, as well as site conditions.

## FLOW MANAGED IRRIGATION (FMI)\*\*



\*\* Graphs may vary as they are based on available flow, water window and programming constraints.

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