Twice 2-wire
CENTRAL CONTROL

UP TO 200 STATIONS, WITH 100 DECODERS OR LESS

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 T wice controllers, sets a new precedent for 2-wire control within the irrigation industry.

KEY FEATURES & BENEFITS

EVAPOTRANSPIRATION (ET) BASED SCHEDULING
Maximizes water saving and irrigation efficiency

FLOW SENSING AND CONTROL
Monitors system flow and responds to upper, lower, unscheduled and no flow conditions

2-WIRE INTERFACE MODULE
Provides 2-wire capability for any Irritrol Rain Master Eagle controller

DECODER TWO-WAY COMMUNICATION
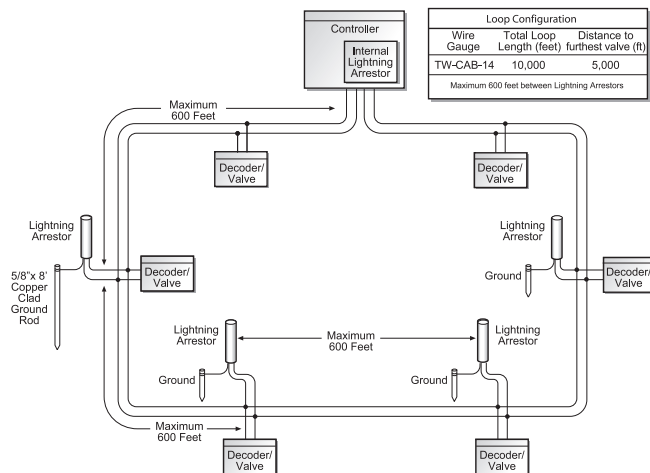Provides troubleshooting diagnostics to retain system integrity

PROGRAMMABLE DECODERS
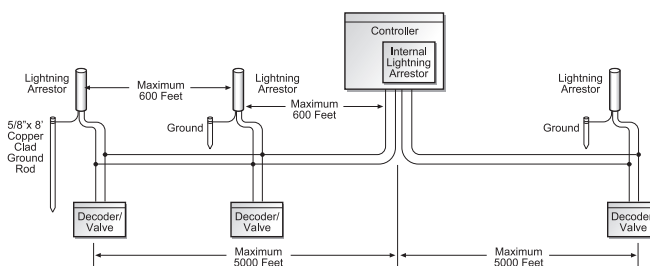Provides flexibility in programming decoder identification

DECODER LEDS FOR EASY TROUBLE SHOOTING

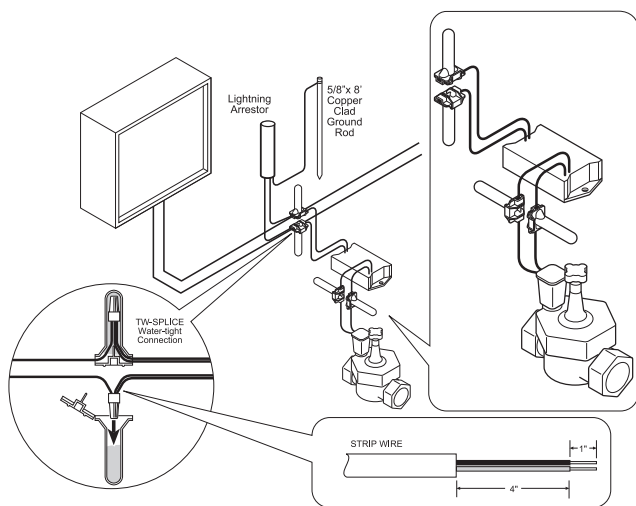**AVAILABLE FOR DX2, EAGLE™ & EAGLE™ PLUS SYSTEMS**

TWICE LOOP CONFIGURATION

Controller — Internal Lightning Arrestor

Loop Configuration		
Wire Gauge	Total Loop Length (feet)	Distance to furthest valve (ft)
TW-CAB-14	10,000	5,000
Maximum 600 feet between Lightning Arrestors		

TWICE STRAIGHT LINE CONFIGURATION

Straight Line Configuration	
Wire Gauge	Total Wire Length (feet)
TW-CAB-14	5,000
Maximum 600 feet between Lightning Arrestors	

TWICE WIRE CONNECTION DETAIL

We reserve the right to improve our products and make changes in the specifications and designs without notice and without incurring obligation. Products depicted in this brochure are for demonstration purposes only. Actual products offered for sale may vary in design and features.

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

ELECTRICAL SPECIFICATIONS
- Input power: 105-130V ac, 50/60 Hz, 0.5 amp maximum, 1 amp idle
- Output power: 24V ac, 1.5 amps maximum total output or (36 VA) 1.0 amp per station or master valve
- UL, CUL, and FCC approved

SPECIFYING INFORMATION

Model	Controller Description
TW-DX48-PWM	DX2, up to 48 stations, painted wall mount
TW-DX48-SWM	DX2, up to 48 stations, stainless wall mount
TW-DX48-SPED	DX2, up to 48 stations, stainless steel security pedestal
TW-DX48-UFEN	DX2, up to 48 stations, stainless steel ultimate front entry enclosure
TW-EGi36*	Eagle, up to 36 decoders, steel wall mount
TW-EGi36-SB*	Eagle, up to 36 decoders, stainless steel wall mount
TW-EGi36-SPED*	Eagle, up to 36 decoders, 14 gauge stainless steel security pedestal
EGP-TWi*	Eagle Plus, up to 200 stations, painted wall mount
EGP-TWi-S*	Eagle Plus, up to 200 stations, stainless steel pedestal
EGP-TWi-SPED*	Eagle Plus, up to 200 stations, 14 gauge stainless steel security pedestal
EGP-TWi-PSB*	Eagle Plus, up to 200 stations, 14 gauge stainless steel security pedestal

Remove "i" for standalone option

DIMENSIONS
- **TW model:** H: 10" W: 13" D: 4.5"
- **TW & SB model:** H: 17.5" W: 13" D: 4.5"
- **TW-SPED model:** H: 35" W: 16" D: 14"

OPTIONAL 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 arrestor (every 600 feet)
TW-SPLICE	14-gauge water-tight connectors
TW-CAB-14	14-gauge (red/black) Polycoated (blue) wire