

RAIN MASTER

Satellite Assemblies

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"Technology Solutions for the Green Industry"

SA SATELLITE ASSEMBLY – Central communicating capable with one or multiple sites.

RM2 Rain Master Eagle Plus-I RM3 Rain Master Eagle-I RM4 Rain Master DX2 RM6 **Rain Master DX3**

8,16,24,32,40,48,TW (two wire up to 200 stations) 6,12,18,24,30,36,TW (two wire up to 36 stations) 6,12,18,24,30,36,42,48,TW (two wire up to 48 stations)

8 to 96 Conventional in 8 station increments,

TW (two wire up to 200 stations)

UL APPROVED ENCLOSURES – VIT Strong Box

CODE	<u>MODEL</u>	<u>DIMENSIONS</u>	<u>TYPE</u>
1	SB-18SS	18"w x 36"h x 12"d	Front Entry
2	SB-18DSS	18"w x 36"h x 24"d	Front & Rear Door
3	SB-24SS	24"w x 36"h x 12"d	Front Entry
4	SB-24DSS	24"w x 36"h x 24"d	Front & Rear Door
5	MPS-A16-10K	18"w x 52"h x 32"d	Metered
6	SB-16SS	16"w x 38"h x 15.5"d	Top Entry
7	SB-22SS	24"w x 38"h x 17"d	Top Entry
8	SB-36SS	36"w x 36"h x 12"d	Double Front Entry
10	BB-18SS	16"w x 32"h	Backboard (SB-18SS)
11	BB-24SS	22"w x 32"h	Backboard (SB-24SS)
12	LD-16SW (N.A. DX2)	16.75"w x 30"h x 8.25"d	Light Duty Wall Mount
13	LD-16S (N.A. DX2)	16.75"w x 30"h x 8.25"d	Light Duty Front Entry
14	LD-18SW (N.A. DX2)	18"w x 18"h x 8"d	Light Duty Wall Mount
15	LD-16STS (N.A. DX2)	16.75"w x 36"h x 12"d	Light Duty Top Entry
16	SB-18SSW	18"w x 36"h x 12"d	Front Entry Wall Mount
17	SB-24SSW	24"w x 36"h x 12"d	Front Entry Wall Mount

UL FACTORY APPROVED ENCLOSURES – Rain Master

01	EGP-PWM	11"w x 16"h x 5.625"d	EGP Painted Wall Mount
01	EG-PWM	13.25"w x 10.25"h x 4.75"d	EG Painted Wall Mount
01	DX-PWM	19.5"w x 23"h x 8"d	DX Painted Wall Mount
03	EGP-SWM	11"w x 16"h x 5.625"d	EGP Stainless Wall Mount
03	EG-SWM	13.25"w x 18"h x 4.5"d	EG Stainless Wall Mount
03	DX-SWM	19"w x 23"h x 9"d	DX Stainless Wall Mount

EXAMPLE PART NUMBER

SA6-RM2-48/ - Satellite Assembly; 16" top entry Strong Box stainless steel enclosure with 48 station Eagle Plus-I Central controller with antenna and I-Card.



I-Central Communication – RM3

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ADDITIONAL YEARS OF I-CENTRAL SERVICE

The EGi satellite controller comes with 5 years of internet service included. This option will provide additional years to the service plan. Rain Master's I-Central system is a low-cost Web-hosted service that provides central control capabilities through any web browser.

1YR ONE ADDITIONAL YEAR I-CENTRAL SERVICE 2YR TWO ADDITIONAL YEARS I-CENTRAL SERVICE 5YR **FIVE ADDITIONAL YEARS I-CENTRAL SERVICE 10YR** TEN ADDITIONAL YEARS I-CENTRAL SERVICE

RAIN MASTER-TWO WIRE DECODERS

RMD TWO-WIRE DECODERS - Rain Master Decoders are installed to operate one, two or four valves/solenoids. Each decoder includes 4-water tight electrical connectors. (Required for Five-Year Warranty)



Valves Controlled Part Number RMD1 1 RMD2 2 RMD4 4

RMLA TWO-WIRE SURGE PROTECTION - A two-wire path must be surge protected and grounded every 500 feet or every 8 decoders, whichever is smaller. Includes 8' grounding rod and clamp. (Required for Five-Year Warranty)

TWO WIRE CABLE

CAB14 14 GAUGE 2-WIRE CABLE - 14 gauge (Red/Black), polyethylene coated, double jacketed wire; ensures communication integrity between TW Controller and Decoder (Required for Five-Year Warranty)

Part Number	OUTER JACKET CABLE COLOR	
CAB14-B	BLUE	
CAB14-BL	BLACK	
CAB14-BR	BROWN	
CAB14-G	GREEN	
CAB14-O	ORANGE	
CAB14-P	PURPLE	
CAB14-R	RED	
CAB14-W	WHITE	
CAR14-Y	YELLOW	



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SATELLITE ASSEMBLY COMPONENTS Rain Master - Eagle with I-Central Communication – RM3

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RAIN MASTER REMOTES

PMR



PERMANENT MOUNT RECEIVER & PROMAX REMOTE TRANSMITTER - For Rain Master Controllers. The Controller Assembly shall be provided with a PROMAX hand held remote radio transmitter for remote operation of the controller and a permanently mounted receiver installed inside the enclosure with antenna installed on the enclosure. The PROMAX is pre-programmed with a Radio Access Code (RAC) and the receiver is pre-programmed with a Controller Access Code (CAC) to protect against unauthorized operation from an unauthorized transmitter.

PMR-CAC PERMANENT MOUNT RECEIVER WITH CONTROLLER ACCESS CODE - For Rain Master Controllers. The Controller Assembly shall be provided with a PROMAX permanently mounted receiver installed inside the enclosure with antenna installed on the enclosure. The receiver is pre-programmed with a Controller Access Code (CAC) to protect against unauthorized operation from an unauthorized transmitter.

GROUNDING - Required for Five-Year Warranty

GR-K



GROUNDING ROD – Includes 8' ground rod, grounding clamp and 15' of 6-gauge bare copper wire.

GRP-3



GROUNDING PLATE KIT – Includes 4" X 36" copper plate with 10' of 10-gauge copper wire, 50lbs Paige Powerset.

GRP-K



GROUNDING PLATE KIT – Includes 4" X 96" copper plate with 25' 6-gauge copper wire, 100lbs Paige Powerset.

GRPA



GROUNDING PLATE & ROD ASSEMBLY – Includes 4" X 96" copper plate with 25' 6-gauge copper wire, 8' ground rod, Cadweld L connector, grounding clamp and 100lbs Paige Powerset earth grounding material

LINE PROTECTION

LPP



LINE PRIMARY PROTECTION - The Controller Assembly shall be provided with a Line Primary Protection assembly for the purpose of protecting the components against electrical surge coming in on the 120 volt A.C. power source wiring. This assembly shall consist of a surge arrestor installed on each leg of the 120 volt A.C. wiring that shall be housed in an electrical enclosure within the assembly. The LPP is located at the point where the electrical power enters the assembly. This option is included in all "SA"

assemblies.



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RELAY OPTIONS

MVR MASTER VALVE RELAY ASSEMBLY - The Controller Assembly shall be provided with a Master Valve Relay assembly for the purpose of multiple controller operation of a single master valve. This assembly shall consist of a relay mounted on the terminal board. One MVR is required for each controller sharing a single master valve. Master Valve Relays are not required for normally open master valves. If a controller is intended to control or operate a booster pump, the MVR may be used for this dual purpose. No Pump Start Relay will be necessary in this case. This applies to normally closed master valves only.

PSRPUMP START RELAY ASSEMBLY -The Controller Assembly shall be provided with a Pump Start Relay assembly for the purpose of controller initiated pump operation. This assembly shall consist of a relay pre-wired to a terminal strip. One PSR is required for each controller. A PSR is not required when Master Valve Relay(s) are being used simultaneously. The MVR may be used in lieu of the PSR.

RAIN, FREEZE and WIND SENSOR SHUT OFF OPTIONS

RSE



RAIN SWITCH ENCLOSURE MOUNTED ASSEMBLY - The Satellite Assembly shall be provided with a rain switch enclosure-mounted assembly to shut down the irrigation system during rainy weather conditions. This assembly shall consist of a Mini-Clik® in a vandal-resistant housing mounted on the enclosure. The rain switch interconnect wire harness shall be pre-wired to the controller's sensor terminals. The rain switch shall actuate after ¼", rainfall. For two Controllers in the same enclosure use RSE2.

RS



RAIN SWITCH ASSEMBLY - The Satellite Assembly shall be provided with a remote rain switch assembly to shut down the irrigation system during rainy conditions. This assembly shall consist of a Mini-Clik® and a mounting bracket (for installation on a nearby structure). The rain switch interconnect wire harness shall be pre-wired to the controller's sensor terminals. The rain switch shall actuate after user-selected rainfall set-points.

RSP



RAIN SWITCH POLE MOUNTED ASSEMBLY -The Satellite Assembly shall be provided with a rain switch pole-mounted assembly to shut down the irrigation system during rainy weather conditions. This assembly shall consist of a Mini-Clik® in a vandal-resistant housing for 2" Galvanized pole mount. The rain switch interconnect wire harness shall be pre-wired to the controller's sensor terminals.

WRS



<u>WIRELESS RAIN SWITCH ASSEMBLY</u> -The Satellite Assembly shall be provided with a wireless rain switch assembly to shut down the irrigation system during rainy weather conditions. This assembly shall consist of a Wireless Rain-Clik® and a mounting bracket (for installation of the sensor on a nearby structure). The receiver module is shall be pre-wired to the controller's sensor terminals.

RFRZE



RAIN & FREEZE SWITCH ENCLOSURE MOUNTED ASSEMBLY - The Satellite Assembly shall be provided with a rain switch and freeze switch enclosure-mounted assembly to shut down the irrigation system during rainy & freezing weather conditions. This assembly shall consist of a Mini-Clik® & Freeze-Click® in a vandal-resistant housing mounted on the enclosure. The sensor interconnect wire harnesses shall be pre-wired to the controller's sensor terminals.

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SATELLITE ASSEMBLY COMPONENTS Rain Master - Eagle with I-Central Communication – RM3

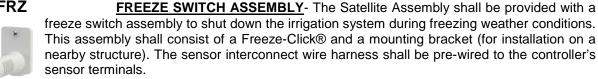
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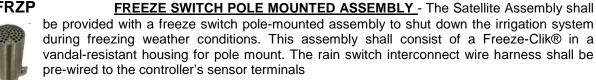
FRZE

FREEZE SWITCH ENCLOSURE MOUNTED ASSEMBLY - The Satellite Assembly shall be provided with a freeze switch enclosure-mounted assembly to shut down the irrigation system during freezing weather conditions. This assembly shall consist of a Freeze-Click® in a vandal-resistant housing mounted on the enclosure. The sensor interconnect wire harness shall be pre-wired to the controller's sensor terminals.

FRZ

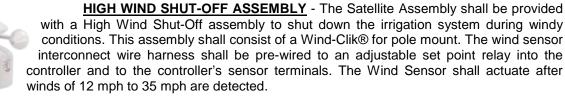


FRZP

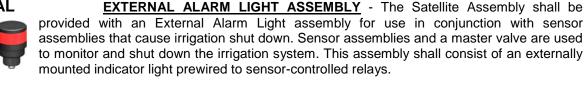


WRFZ WIRELESS RAIN & FREEZE SWITCH ASSEMBLY - The Satellite Assembly shall be provided with a rain and freeze sensor assembly to shut down the irrigation system during rainy & freezing weather conditions. This assembly shall consist of a remote rain/freeze sensor with a mounting bracket (for installation on a nearby structure) and receiver module mounted in the satellite assembly. The module shall be pre-wired to the controller's sensor terminals.

HWS



EAL



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FLOW SENSING

FS-CAB

16 GAUGE, 1 PAIR CABLE - The flow sensor cable shall be 16-gauge, single pair. The construction shall include tin coated copper conductors, an aluminum shield to prevent cross-talk, a drain wire for grounding the cable, and an overall PE jacket. The cable shall be listed for direct burial.

GTFS



FLOW SENSING ASSEMBLY - The Satellite Assembly shall be provided with a Creative Sensor Technology flow sensor for use with the purpose of receiving and reacting to flow data from flow sensor. The assembly consists of a tee mounted sensor. Master valve is required for each flow sensor in order to shut down the mainline when an abnormal or unwanted flow occurs.

Part Number	Pipe Siz	ze / Sensor Tee	Flow Range (GPM)
GTFS-100P	1.0"	PVC	1 - 52
GTFS-150P	1.5"	PVC	2 - 108
GTFS-150B	1.5"	BRASS	3 - 90
GTFS-200P	2.0"	PVC	3 - 170
GTFS-300S	3.0"	PP Saddle	6 - 300
GTFS-400S	4.0"	PP Saddle	10 - 480
GTFS-600S	6.0"	PP Saddle	45 - 1100

FSDI



FLOW SENSING ASSEMBLY - The Satellite Assembly shall be provided with a Data Industrial flow sensor for use with the purpose of receiving and reacting to flow data from flow sensor. The assembly consists of a tee mounted sensor. Master valve is required for each flow sensor in order to shut down the mainline when an abnormal or unwanted flow occurs.

Part Number	Pipe Size / Sensor Tee		Flow Range (GPM)
FSDI-100B	1.0"	Brass	2 - 40
FSDI-100P	1.0"	PVC	5 - 54
FSDI-150B	1.5"	Brass	4 - 80
FSDI-150P	1.5"	PVC	5 - 100
FSDI-200B	2.0"	Brass	10 - 100
FSDI-200P	2.0"	PVC	10 - 200
FSDI-250B	2.5"	Brass	16 - 160
FSDI-300P	30"	PVC	20 - 300
FSDI-400P	40"	PVC	40 - 500
FSDI-600S	60"	PP Saddle	90 – 1000

SFS



SONIC FLOW SENSOR - Uses sonic pulses to accurately gauge water movement. Excellent for systems using a combination of low flow drip and high flow rotors on a single point of connection. Comes with digital readout display. Does not include master valve.

Part Number	Pipe Size / Sensor Tee		Flow Range
SFS-200	2.0	Cast Iron	0.01-120
SFS-300	3.0"	Cast Iron	0.01-300
SFS-400	4.0"	Cast Iron	2-500
SFS-600	6.0"	Cast Iron	5-1000

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SFM



SONIC FLOW METER- The Controller Assembly shall be provided with a **Flomec** flow sensor for use with the purpose of receiving and reacting to flow data from flow sensor. The assembly consists of a tee mounted sensor. Master valve is required for each flow sensor in order to shut down the mainline when an abnormal or unwanted flow occurs. Uses sonic pulses to accurately gauge water movement. Excellent for systems using a combination of low flow drip and high flow rotors on a single point of connection.

Part Number	Pipe Size / Sensor Tee	Flow Range
SFM-100P	1.0" PVC	0.22-33
SFM-150P	1.5" PVC	0.55-82
SFM-200P	2.0" PVC	0.92-138
SFM-300P	3.0" PVC	2.06-309
SFM-400P	4.0" PVC	3.58-537

FLOW SENSING & MASTER VALVE

GTFSV



FLOW SENSING ASSEMBLY WITH NORMALLY OPEN MASTER VALVE -

The Satellite Assembly shall be provided with a Flow Sensing Assembly for use with the purpose of receiving and reacting to flow data from flow sensor. The assembly consists of a tee mounted sensor and a **Superior 3300** normally open master valve. Master valve is required for each flow sensor in order to shut down the mainline when an abnormal or unwanted flow occurs.

Part Number	Pipe Size /	Sensor Tee	Flow Range (GPM)
GTFSV-100B	1.0"	Brass	2-30
GTFSV-100P	1.0"	PVC	1-52
GTFSV-150B	1.5"	Brass	4-80
GTFSV-150P	1.5"	PVC	2-108
GTFSV-200B	2.0"	Brass	10-100
GTFSV-200P	2.0"	PVC	3-170
GTFSV-250B	2.5"	Brass	16-160
GTFSV-300P	3.0"	Brass	20-300

GTFSVC



FLOW SENSING ASSEMBLY WITH NORMALLY CLOSED MASTER VALVE

The Satellite Assembly shall be provided with a Flow Sensing Assembly for use with the purpose of receiving and reacting to flow data from flow sensor. The assembly consists of a tee mounted sensor and a **Superior 3200** normally closed master valve. Master valve is required for each flow sensor in order to shut down the mainline when an abnormal or unwanted flow occurs.

Part Number	Pipe Size /	Sensor Tee	Flow Range (GPM)
GTFSVC-100B	1.0"	Brass	2-30
GTFSVC-100P	1.0"	PVC	1-52
GTFSVC-150B	1.5"	Brass	4-80
GTFSVC-150P	1.5"	PVC	2-108
GTFSVC-200B	2.0"	Brass	10-100
GTFSVC-200P	2.0"	PVC	3-170
GTFSVC-250B	2.5"	Brass	16-160
GTFSVC-300P	3.0"	PVC	20-300



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NFS-PD



NETAFIM PHOTO DIODE HYDROMETER - Combines a master valve, flow sensor and analog volumetric water meter into a single unit. Saves space by not requiring any premeasured distances between pipe inlet and outlet. Uses a Photo Diode register for higher flow resolution. Ideal for high pressure and/or low flow systems.

Normally Closed — NFS-PDC-XXX(size)
Normally Open — NFS-PD-XXX(size)
With PR Option, Normally Closed — NFS-PDPRC-XXX(size)
With PR Option, Normally Open — NFS-PDPR-XXX(size)

<u>Size</u>	<u>Valve Size</u>	Flow Range (GPM)
150	1.5"	0.02-60
200	2.0"	0.02-120
300	3.0"	2-300
400	4.0"	5–500
600	6.0"	10-1000

NFS-RS



NETAFIM REED SWITCH HYDROMETER - Combines a master valve, flow sensor and analog water meter into a single unit. Saves space by not requiring any premeasured distances between pipe inlet and outlet. The reed switch register is a dry contact closure for communicating with control and monitoring equipment.

Normally Closed – NFS-RSC-XXX(size)
Normally Open – NFS-RS-XXX(size)
With PR Option, Normally Closed – NFS-RSPRC-XXX(size)
With PR Option, Normally Open – NFS-RSPR-XXX(size)

<u>Size</u>	<u>Valve Size</u>	Flow Range (GPM)
150	1.5"	2-60
200	2.0"	5-120
300	3.0"	8-300
400	4.0"	10-500
600	6.0"	12-1000



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ENCLOSURE MOUNTING PAD, PEDESTALS & COOLING FAN

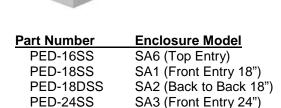
EMP

ENCLOSURE MOUNTING PAD - The Satellite Assembly shall be provided with an Enclosure Mounting Pad assembly for the purpose of mounting to a "Strong Box" enclosure. This assembly consists of a reinforced plastic support base, a three-sixteenth inch thick 5052 H32 Marine Grade Aluminum mounting pad, and 304-grade stainless steel fastening brackets. The support base shall be installed and compacted in earth allowing the top two inches of the support base to be exposed above the grade.

Part Number		Assembly#	Enclosure Model#
CA1	SB-18SS	-	
CA2	SB-18DSS	}	
CA3	SB-24SS		
CA4	SB-24DSS	}	
CA5	MPE		
CA6	SB-16SS		
	CA1 CA2 CA3 CA4 CA5	CA1 SB-18SS CA2 SB-18DSS CA3 SB-24SS CA4 SB-24DSS CA5 MPE	CA1 SB-18SS CA2 SB-18DSS CA3 SB-24SS CA4 SB-24DSS CA5 MPE

PED

<u>OPTIONAL PEDESTAL</u> – The Satellite Assembly shall be provided with an optional 12" high pedestal for the purpose of mounting to a "Strong Box" enclosure.



SA4 (Back to Back 24")

SA8 (Side-by-Side 36")

FANTHERMOSTATICALLY CONTROLLED FAN - Factory set at 90 degrees
Fahrenheit the thermostat can be adjusted in the field to help maintain desired enclosure temperature. This option is for all Front Entry assemblies

FAN-16

PED-24DSS

PED-36SS

<u>THERMOSTATICALLY CONTROLLED FAN</u> - Factory set at 90 degrees Fahrenheit the thermostat can be adjusted in the field to help maintain desired enclosure temperature. This FAN option is specifically built for the SA6 assembly.





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MASTER VALVE POWER

MVPE MASTER VALVE POWER ASSEMBLY EXTERNAL ENCLOSURE - The



Controller Assembly shall be provided with a Master Valve Power assembly for the purpose of powering a Normally Closed master valve circuit independent of controller operation to pressurize the mainline for supplemental watering. This assembly shall consist of a timing module (with variable timing from 1 second to 24 hours) with Enclosure mounted external access pushbutton switches to initiate and stop operation of the Master Valve.