HYDROPOINT SATELLITE ASSEMBLIES

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SA SATELLITE ASSEMBLY – Non-Central Stand Alone & Central Communicating Controllers

WT3	**WeatherTRAK ET Pro^{3}Central**	(12,18,24,30,36,42,48,72,96, H2O48,H2O96 stations
WT4	**WeatherTRAK LC**	(6,12,18,24,30,36 stations)
WT5	**WeatherTRAK Optiflow XR**	(12,18,24,30,36,42,48,72,96,H2O48,H2O96,H2O200 stations

UL APPROVED ENCLOSURES – VIT Strong Box

CODE	MODEL	DIMENSIONS	TYPE
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	MPE-A16-10K	18”w x 52”h x 32”d	Meter & Companion Enclosure
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
9	BB-16SS	14”w x 32”h	Backboard & Tray (SB-16SS)
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	16.75”w x 30”h x 8.25”d	Light Duty Wall Mount
13	LD-16S	16.75”w x 30”h x 8.25”d	Light Duty Front Entry
14	LD-18SW	18”w x 18”h x 8”d	Light Duty Wall Mount
15	LD-16STS	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
22	SB-16SSW	16”w x 18”h x 10”d	Front Entry Wall Mount

UL FACTORY APPROVED ENCLOSURES – WeatherTRAK

01	WTPRO3-CWM	12” w x 17” h x 5.75” d	PRO3 Painted Wall Mount
01	WTOXR-CWM	12” w x 17” h x 5.75” d	OXR Painted Wall Mount
01	WTLC-CWM	14" w x 11” h x 5-3/4” d	LC Plastic Wall Mount
03	WTPRO3-SWM	12” w x 17” h x 5.75” d	PRO3 Stainless Wall Mount
03	WTOXR-SWM	12” w x 17” h x 5.75” d	OXR Stainless Wall Mount

EXAMPLE PART NUMBER

SA6-WT3-48/ - Satellite Assembly; 16” Top Entry, Strong Box stainless steel enclosure with a 48 station Weather Trak ET Pro^{3}Central controller.

Tel: 949-455-7465 • 800-427-0779 • Fax: 949-455-7492

COMMUNICATION PLANS

ET EVERYWHERE

CENTRAL INTERNET MANAGEMENT (CIM) ET EVERYWHERE

ETEC-1Y	1 YEAR (CIM) ET EVERYWHERE - (12-48 STATIONS)	1 year CIM
ETEC-2Y	2 YEAR (CIM) ET EVERYWHERE - (12-48 STATIONS)	2 year CIM
ETEC-3Y	3 YEAR (CIM) ET EVERYWHERE - (12-48 STATIONS)	3 year CIM
ETEC-5Y	5 YEAR (CIM) ET EVERYWHERE - (12-48 STATIONS)	5 year CIM
ETEC-10Y	10 YEAR (CIM) ET EVERYWHERE - (12-48 STATIONS)	10 year CIM
ETECXL-1Y	1 YEAR (CIM) ET EVERYWHERE - (49+ STATIONS)	1 year CIM
ETECXL-2Y	2 YEAR (CIM) ET EVERYWHERE - (49+ STATIONS)	2 year CIM
ETECXL-3Y	3 YEAR (CIM) ET EVERYWHERE - (49+ STATIONS)	3 year CIM
ETECXL-5Y	5 YEAR (CIM) ET EVERYWHERE - (49+ STATIONS)	5 year CIM
ETECXL-10Y	10 YEAR (CIM) ET EVERYWHERE - (49+ STATIONS)	10 year CIM

OPTIFLOW SERVICE

CENTRAL INTERNET MANAGEMENT (CIM) WITH OPTIFLOW

ETEC+OFS-1Y	1 YEAR OPTIFLOW SERVICE - (12-48 STATIONS)	1 year CIMOFS
ETEC+OFS-2Y	2 YEAR OPTIFLOW SERVICE - (12-48 STATIONS)	2 year CIMOFS
ETEC+OFS-3Y	3 YEAR OPTIFLOW SERVICE - (12-48 STATIONS)	3 year CIMOFS
ETEC+OFS-5Y	5 YEAR OPTIFLOW SERVICE - (12-48 STATIONS)	5 year CIMOFS
ETEC+OFS-10Y	10 YEAR OPTIFLOW SERVICE - (12-48 STATIONS)	10 year CIMOFS
ETECXL+OFS-1Y	1 YEAR OPTIFLOW SERVICE - (49+ STATIONS)	1 year CIMOFSXL
ETECXL+OFS-2Y	2 YEAR OPTIFLOW SERVICE - (49+ STATIONS)	2 year CIMOFSXL
ETECXL+OFS-3Y	3 YEAR OPTIFLOW SERVICE - (49+ STATIONS)	3 year CIMOFSXL
ETECXL+OFS-5Y	5 YEAR OPTIFLOW SERVICE - (49+ STATIONS)	5 year CIMOFSXL
ETECXL+OFS-10Y	10 YEAR OPTIFLOW SERVICE - (49+ STATIONS)	10 year CIMOFSXL

REMOTE CONTROL

WEATHERTRAK MOBILE - WeatherTRAK Mobile is a free app for Apple iOS or Android devices. It allows the user to manage and control HydroPoint satellites from anywhere with cellular service. It's simple to use, provides on-site troubleshooting and diagnostics capabilities. (Requires active WeatherTrak Service plan).

TWO WIRE COMPONENTS

TWO WIRE DECODERS (H2O Version)

WTD-H1

WeatherTRAK H2O SINGLE STATION DECODER – Decoder operates one 24VAC irrigation valve. Each decoder includes four 3M™ DBR/Y-6 splice kits

WTD-H2

WeatherTRAK H2O TWO STATION DECODER – Decoder operates two 24VAC irrigation valve. Each decoder includes six 3M™ DBR/Y-6 splice kits

WTMV-H

WeatherTRAK H2O MASTER VALVE DECODER – Decoder operates a 24VAC master valve. Each decoder includes four 3M™ DBR/Y-6 splice kits

WTPS-H

WeatherTRAK H2O PUMP START DECODER – Decoder operates a 24VAC relay. Each decoder includes four 3M™ DBR/Y-6 splice kits

WTFSD-H

WeatherTRAK H2O FLOW SENSOR DECODER – Compatible with Flow3, FlowHD, Data Industrial, CST and Netafim RS flow sensors. Includes four 3M™ DBR/Y-6 splice kits

WTSA-H

WeatherTRAK H2O SURGE ARRESTOR – One lightning arrestor to be used every 600’ in conjunction with an 8’ grounding rod along the two-wire path. WTSA-H Includes grounding rod, 15’ of 6-gauge bare copper wire and clamp.

TWO WIRE CABLE

CAB14

14 GAUGE 2-WIRE CABLE – 14 gauge (Red/Black), polyethylene coated, double jacketed wire; ensures communication integrity between TW Satellite 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
CAB14-Y	YELLOW

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

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 satellite's sensor terminals**.** The rain switch shall actuate after ¼", rainfall. For two Satellites 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 satellite'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 satellite's sensor terminals.

WRS **WIRELESS RAIN SWITCH ASSEMBLY** -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 satellite'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 satellite's sensor terminals.

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 satellite's sensor terminals.

FRZ **FREEZE SWITCH ASSEMBLY**- The Satellite Assembly shall be provided with a freeze switch assembly to shut down the irrigation system during freezing weather conditions. This assembly shall consist of a Freeze-Click® and a mounting bracket (for installation on a nearby structure). The sensor interconnect wire harness shall be pre-wired to the satellite's sensor terminals.

FRZP **FREEZE SWITCH POLE MOUNTED ASSEMBLY** - The Satellite Assembly shall be provided with a freeze switch pole-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 for pole mount. The rain switch interconnect wire harness shall be pre-wired to the satellite's sensor terminals

.**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 satellite's sensor terminals.

HWS

HIGH WIND SHUT-OFF ASSEMBLY - The Satellite Assembly shall be provided with a High Wind Shut-Off assembly to shut down the irrigation system during windy conditions. This assembly shall consist of a Wind-Clik® for pole mount. The wind sensor interconnect wire harness shall be pre-wired to an adjustable set point relay into the satellite and to the satellite's sensor terminals. The Wind Sensor shall actuate after winds of 12 mph to 35 mph are detected.

EAL

EXTERNAL ALARM LIGHT ASSEMBLY - The Satellite Assembly shall be provided with an External Alarm Light assembly for use in conjunction with sensor assemblies that cause irrigation shut down. Sensor assemblies and a master valve are used to monitor and shut down the irrigation system. This assembly shall consist of an externally mounted indicator light prewired to sensor-controlled relays.

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 Size / 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	0.50 – 50
SFS-300	3.0”	Cast Iron	1.00 – 500
SFS-400	4.0”	Cast Iron	1.50 – 1000
SFS-600	6.0”	Cast Iron	3.00 – 1500

UFM

ULTRASONIC FLOW METER- Uses ultrasonic 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. Does not include master valve.

Part Number			Pipe Size / Sensor Tee	Flow Range
UFM-100P	1.0”	SCH80 PVC	0.22 – 33	
UFM-150P	1.5”	SCH80 PVC	0.55 – 82	
UFM-200P	2.0”	SCH80 PVC	0.92 – 138	
UFM-300P	3.0”	SCH80 PVC	2.06 – 309	
UFM-400P	4.0”	SCH80 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

"Technology Solutions for the Green Industry"

SATELLITE ASSEMBLY COMPONENTS

WeatherTRAK ET Pro^3 – WT3

WeatherTRAK ET LC – WT4

WeatherTRAK OptiFlow XR – WT5

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WTFS-PD **HYDROPOINT HYDROMETER ASSEMBLY PHOTO DIODE**

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. Uses a Photo Diode for extremely low flow reading resolution, ideal for drip systems.

WTFS-PDC-XXX (size) **NORMALLY CLOSED**
WTFS-PD-XXX (size) **NORMALLY OPEN**
WTFS-PDPRC-XXX (size) **PRESSURE REGULATING NORMALLY CLOSED**
WTFS-PDPR-XXX (size) **PRESSURE REGULATING NORMALLY OPEN**

Size	Valve Size	Flow Range (GPM)
150	1.5”	1.8 – 55
200	2.0”	5.3 – 95
300	3.0”	14 – 220
400	4.0”	53 – 860
600	6.0”	97 – 1500

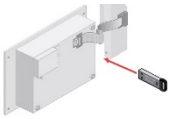
WTFS-RS **HYDROPOINT HYDROMETER ASSEMBLY REED SWITCH**

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. Uses a Reed Switch for traditional pulse output.

WTFS-RSC-XXX (size) **NORMALLY CLOSED**
WTFS-RS-XXX (size) **NORMALLY OPEN**
WTFS-RSPRC-XXX (size) **PRESSURE REGULATING NORMALLY CLOSED**
WTFS-RSPR-XXXX (size) **PRESSURE REGULATING NORMALLY OPEN**

Size	Valve Size	Flow Range (GPM)
150	1.5”	1.8 – 55
200	2.0”	5.3 – 95
300	3.0”	14 – 220
400	4.0”	53 – 860
600	6.0”	97 – 1500

OFKEY **OPTIFLOW KEY** - Used to upgrade WTPRO3 to enable satellite to share flow information between other satellites in flow group (FLOW MANAGE) and work together via WeatherTrak Cloud. One key needed per satellite. Requires active WeatherTrak Service plan



GT-WTFS **HYDROPOINT FLOWSHARE** - The Flowshare allows two satellites to share either a normally open or normally closed master valve. No additional equipment needed to control a master valve. Allows power sharing for optical sensor or pump start.

GT-WTFL **HYDROPOINT FLOWLINK** - The FlowLink uses existing irrigation valve wires to be used for flow sensing and master valve connections in retrofit sites. Includes satellite transceiver, field transceiver and station transceiver.

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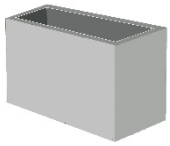
ENCLOSURE MOUNTING PAD, PEDESTALS & COOLING FAN

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#
EMP-18	CA1	SB-18SS
EMP-18D	CA2	SB-18DSS
EMP-24	CA3	SB-24SS
EMP-24D	CA4	SB-24DSS
EMP-MT	CA5	MPE
EMP-16	CA6	SB-16SS

PED



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

Part Number	Enclosure Model
PED-16SS	SA6 (Top Entry)
PED-18SS	SA1 (Front Entry 18")
PED-18DSS	SA2 (Back to Back 18")
PED-24SS	SA3 (Front Entry 24")
PED-24D	SA4 (Back to Back 24")
PED-36SS	SA8 (Side-by-Side 36")

FAN

THERMOSTATICALLY 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

THERMOSTATICALLY CONTROLLED FAN - 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.