



Accessory Catalog

All Mission Communications remote terminal units (RTUs) come equipped with the necessary materials for a standard application. The accessories described in this catalog are intended for specialty applications and/or to replace expired or damaged parts.

Many of the accessories in this catalog are compatible with both the Legacy and MyDro series of RTU, but some may only work with one system or the other. Please consult the notes column for additional details about each product.

Legacy Series
M110
M800

The products listed in this catalog may be subject to change. Please contact orders@123mc.com with questions about current offerings or to make modifications to accessories that contain multiple components.

The Sales Department can be reached at sales@123mc.com or (877) 993-1911 option 4. Contact Technical Support at techsupport@123mc.com or by selecting option 2.



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Antennas and Antenna Accessories

Mission RTUs include the standard antenna and mounting system that are appropriate for most applications. The majority of Mission systems do not need additional antenna hardware. The antennas and accessories described in this section are for special applications, such as locations where the signal strength is weak or the antenna must be located further away from the RTU than normal. Consider the following factors when choosing antennas:

 Frequency: The cellular transceiver integrated into the Mission RTU supports different frequency bands between 700 MHz and 2100 MHz. The radio will automatically select the best tower signal based on the site and the cellular carrier.

- Signal strength: Signal strength is measured in decibels (dB). It can be improved or gained by clearing obstacles or installing a special antenna.
 Signal strength can be lost in excessively long cable runs or corroded, wet connections.
- Antenna location: For best performance, the antenna should be installed outdoors and as high as possible.
 If mounted on a structure, the antenna whip should be above the highest point.
- Low-profile options: Low profile antennas are inconspicuous and deter vandalism. This type works best when used in areas with great signal strength.
- Directional antennas: These yield higher gain but may prevent the RTU from receiving signals from other towers in the area.



Mission Part No.	Item Description and Specifications	Notes	Image
RF445	Antenna Adapter—Base 7.5-in TNC-F to molded antenna base adapter		
RF3004	Antenna—Directional Yagi 11 dB gain, multi-band antenna, 700–2700 MHz; Includes 9-in TNC-F connector	Drain hole should be oriented toward the ground	
RF409	Antenna—Low Profile with Cable and Adapter 3 dB gain, dual-band, tamper-resistant antenna, 11' SMA cable, and SMA-F to TNC-F		
RF412	Antenna—Low Profile with Cable 3 dB gain, dual-band, tamper-resistant antenna and 11' SMA cable		
RF417	Antenna Cable—10-ft, RG58 N-M to SMA-M		

Antennas and Antenna Accessories

Mission Part No.	Item Description and Specifications	Notes	Image
RF418	Antenna Cable—11-ft, RG58 SMA-M to molded antenna base	Included in PN RF8005 and PN RF433	
RF413C	Antenna Cable—15-ft Includes: low signal loss RG8U cable with TNC-M connectors on both ends, 8-in TNC-F to SMA-M adapter, and 7.5-in TNC-F to molded antenna base adapter	For custom cable length, order direct from vendor; Call Mission for details	
RF414C	Antenna Cable—20-ft Includes: low signal loss 9913 cable with TNC-M connectors on both ends, 8-in TNC-F to SMA-M adapter, and 7.5-in TNC-F to molded antenna base adapter	For custom cable length, order direct from vendor; Call Mission for details	
RF415C	Antenna Cable—25-ft Includes: low signal loss 9913 cable with TNC-M connectors on both ends, 8-in TNC-F to SMA-M adapter, and 7.5-in TNC-F to molded antenna base adapter	For custom cable length, order direct from vendor; Call Mission for details	
RF416C	Antenna Cable—50-ft Includes: low signal loss 9913 cable with TNC-M connectors on both ends, 8-in TNC-F to SMA-M adapter, and 7.5-in TNC-F to molded antenna base adapter	For custom cable length, order direct from vendor; Call Mission for details	

Mission Part No.	Item Description and Specifications	Notes	Image
RF8005	Antenna Kit—Pole Mount Includes: universal antenna mount bracket, 11-ft RG58 SMA-M to molded end antenna cable, strain relief, antenna whip, and 2 mounting clamps	Included with all RTUs	
RF435	Antenna Kit—Pole Mount without Antenna Bracket Includes: 11-ft RG58 SMA-M to molded end antenna cable, strain relief, antenna whip, and 2 mounting clamps	Bracket not included	
RF430	Antenna Mini-Whip Replacement, LTE	Fits universal antenna mount bracket and molded antenna base	
R3002	Antenna Cable 100mm UFL-SMA Bulkhead	For use with MyDro RTUs	
RF434	Bracket—Universal Antenna Mount Replacement, universal, aluminum	Included in PN RF8005	

Expansion Modules and Option Boards

MyDro Expansion Modules

Expansion modules are compatible with MyDro series RTUs (M150 and M850). MyDro units simultaneously support one of each type of expansion module and up to two pulse expansion modules. If ordering a second Pulse Input Expansion Module for the same application, indicate OP464-31 on the order because the modules must run on different channels. Available expansion modules include analog input, analog output, digital input, and pulse input.

The expansion modules provide the following additions to mainboard I/O:

- Analog Input: 4 analog input channels
- Analog Output: 2 analog output channels
- · Digital Input: 8 digital input channels
- Pulse Input: 4 total pulse input channels

Legacy Option Boards

Option boards are compatible with legacy series RTUs (M110 and M800). Legacy units only support one option board per RTU. Available option boards include analog input and pulse input, analog output and pulse input, digital input, and pulse input. When placing orders for option boards, indicate the year the RTU was purchased. Older RTUs will require a backplate adapter to accommodate option boards.

The option boards provide the following additions to mainboard I/O:

- Analog Input and Pulse Input: 4 analog input channels and 2 pulse input channels
- Analog Output and Pulse Input: 2 analog output and 2 pulse input channels
- Digital Input: 8 digital input channels
- Pulse Input: 2 pulse input channels

Mission Part No.	Item Description and Specifications	Notes	Image
OP465	Expansion Module—Analog Input Provides 4 analog input channels via RS485	For use with MyDro 850 RTU; Requires service package (PN SPOP-12)	
OP461	Expansion Module—Analog Output Provides 2 analog output channels via RS485	For use with MyDro 850 RTU; Requires service package (PN SPOP-12)	
OP653	Expansion Module—Digital Input Provides 8 isolated digital inputs via RS485	For use with MyDro 850 RTU; Requires service package (PN SPOP-12)	
OP464	Expansion Module—Pulse Input Provides 2 pulse input channels via RS485	For use with MyDro 150 and MyDro 850 RTUs; Requires service package (PN SPOP-12); Indicate OP464-31 on order if second pulse module on same application	
OP466	Option Board—Analog Input and Pulse Input Provides 4 analog inputs and 2 pulse input channels	For use with M800 RTUs; One option board per RTU; Requires service package (PN SPOP-12); Indicate RTU purchase year on order for proper backplate	

Expansion Modules and Option Boards

Mission Part No.	Item Description and Specifications	Notes	Image
OP460	Option Board—Analog Output and Pulse Input Provides 2 analog output and 2 pulse input channels	For use with M800 RTUs; One option board per RTU; Requires service package (PN SPOP-12); Indicate RTU purchase year on order for proper backplate	
OP650	Option Board—Digital Input Provides 8 isolated digital inputs for alarm purposes	For use with M800 RTUs; One option board per RTU; Requires service package (PN SPOP-12); Indicate RTU purchase year on order for proper backplate	Doonocc
OP463	Option Board—Pulse Input Provides 2 pulse channel inputs	For use with M110 and M800 RTUs; One option board per RTU; Requires service package (PN SPOP-12); Indicate RTU purchase year on order for proper backplate	
OP400	Switch—AC Current Switch Strap-on, nylon enclosure, 5-ft twisted pair wire, red LED shows as a closed digital input when greater than 5 A flows through load conductor	For use with Wet Well Module (PN OP651) or directly wire to MyDro digital inputs	
OP651	Wet Well Module—Revision 2 Includes: Wet Well Module printed circuit board, 2 AC strap-on current switches (PN OP400) and mounting hardware		

Notes

Manhole Monitor Hardware

Mission recommends that customers with Manhole Monitors keep a spare antenna and float on hand in case unforeseen issues arise. For instance, road resurfacing may grind up the existing antenna or a vacuum pump may compromise a float.

The Manhole Monitor comes equipped with most parts necessary for a standard installation, but customers may require the 3/8 inch x 24 inch drill bit for in-road installations.



Manhole Monitor above-ground antenna

Mission Part No.	Item Description and Specifications	Notes	Image
RF8006	Antenna—Above-ground Dual-band antenna with 12-ft SMA-M to SMA-F coaxial antenna cable housed in a 6 ft x 3.5 in vandal-resistant PVC post	For use in remote locations	H
RF8003	Antenna—In-ground Replacement, dynamic load, omnidirectional		
PW8202	Battery Replacement Kit Replacement lithium manganese dioxide, 6.6 V, 6.1 Ah battery pack with 5+ year nominal lifetime, O-ring, dielectric grease, 4 pan-head Phillips stainless steel screws, nitrile gloves		
CP8807	Carabiner Snap hook, 3-1/8 in, 316-rated stainless steel		
CP8000	Drill Bit 3/8 in x 24 in masonry bit	For use during in-road antenna installation	

Manhole Monitor Accessories

Mission Part No.	Item Description and Specifications	Notes	Image
IT8503	Float—10-ft N/C, mercury-free, mechanically activated, MilliAmpMaster, ROHS-compliant float with weight attached; Heat, chemical, and abrasion-resistant, non- wicking cable with molded water-tight termination with integral O-ring and locking bayonet		
IT8502	Float—20-ft N/C, mercury-free, mechanically activated, MilliAmpMaster, ROHS-compliant float with weight attached; Heat, chemical, and abrasion-resistant, non- wicking cable with molded water-tight termination with integral O-ring and locking bayonet		
IT8504	Float—30-ft N/C, mercury-free, mechanically activated, MilliAmpMaster, ROHS-compliant float with weight attached; Heat, chemical, and abrasion-resistant, non- wicking cable with molded water-tight termination with integral O-ring and locking bayonet		
E8110	Mounting Bracket—Sidewall Replacement, 304-rated stainless steel, multi-position, wire management tabs		
E8113	Mounting Bracket—Under the Lid Designed for mounting directly onto RF transparent manhole covers; 304-rated stainless steel		

Notes

Power Accessories and Replacement Components

Mission offers replacement power components to keep RTUs running properly. There are three primary transformer configurations for AC power for customer RTUs:

- Flying lead
- No lead
- Plug-in

The MyDro series auxiliary voltage output is selectable as 12 or 24 VDC. For legacy series units, Mission also offers a power booster for use with external devices that require 24 VDC power and a plug-in 120 VAC to 24 VDC supply. The power booster works with the RTU auxiliary output.

Interposing relays are for use between RTU onboard relays and pumps.



Mission Part No.	Item Description and Specifications	Notes	Image
PW441	Battery—5 Ah Sealed, lead-acid, 12 VDC	Included with standard RTU	ELK.
PW442	Battery—7 Ah Sealed, lead-acid, 12 VDC		ELK THE PARTY OF T
PW7002	Power Booster 24 VDC regulated output, 12–24 VDC input, 0.75 A max output	For use with M110 and M800 RTUs to boost the 12 VDC auxiliary output of RTUs to 24 VDC	₩ Altronix was an expense VB17 may former to the proof of the proof o
PW426	Power Supply—Plug-In 24 VDC, 1 A, UL-listed, black	Used to supply 24 VDC to devices that require more current than can be provided by the RTU auxiliary output	
PW479	Relay Single-pole, double-throw, 12 or 24 VDC, 35 mA coil; Contacts rated 120 VAC, 10 A; Includes: MOVs and diodes	Mechanical relay used between onboard relays and customer pumps; Switches the higher current required by pumps and blower motors	22.23

Power Accessories and Components

Mission Part No.	Item Description and Specifications	Notes	Image
PW480	Relay—Solid State Single-pole, single-throw, N/O only, 5–24 VDC control, 120 VAC, 20 A load	Electronic relay used in applications where low noise switching is required; minimum current of 3 A	
PW453	Transformer UL-recognized, 12.6 VAC, 20 VA, class 2	No wire leads	
PW429	Transformer—Flying Lead Replacement, UL-listed, class 2, 120 VAC step-down to 12.6 VAC, 20 VA	Included with standard RTU	
PW430A	Transformer—Plug-In 12.6 VAC output, 20 VA, MOV protected	Plugs into standard 120 VAC outlet	

Notes	

Replacement and Component Parts

Mission products are designed to be resilient, but harsh environments may still affect the life of equipment. Replacement parts are available to keep devices at peak performance.

It is a good idea to have a few spare components in case of an emergency or for troubleshooting purposes—particularly a spare printed circuit board and radio.

Contact orders@123mc.com for questions about current radios.



Mission Part No.	Item Description and Specifications	Notes	Image
CP422	Annunciator/Buzzer Replacement	Provides audible feedback of key access and RTU connection after reboot; For use with M110 and M800 RTUs	
CP500	Cable—RS485 MyDro communication data cable	For use with MyDro 150 and MyDro 850 RTUs	
CP571	Conformal Coating Protects printed circuit boards from corrosive environments; Can be applied to: main PCB, radio assembly, Wet Well Module, and option board (if used)	Recommended for harsh environment applications; For use with Legacy and MyDro RTUs	NO IMAGE AVAILABLE
CP305	Connector Kit—MyDro Includes: 1 power connector—6 position, 1 analog connector—4 position, 2 digital connectors—8 position, and 3 relay connectors—3 position	For use with MyDro 150 and MyDro 850 RTUs	D1D2D3D4 D5D6D7D8
E4102	Enclosure—FlatPak Legacy Replacement; Includes: electronic key reader, annunciator/ buzzer and main printed circuit board; Dimensions: 10.5 in x 7.75 in x 1.5 in	For use with applications inside other control panels; For use with M110 and M800 RTUs	MESION

Replacement and Component Parts

Mission Part No.	Item Description and Specifications	Notes	lmage
E4102M	Enclosure—FlatPak MyDro Replacement; Includes: electronic key reader, and annunciator/buzzer; Dimensions: 10.5 in x 7.75 in x 1.5 in	For use with applications inside other control panels; Does not include printed circuit board; For use with MyDro 150 and MyDro 850 RTUs	
E4103	Enclosure—NEMA 1 Legacy Replacement; Includes: electronic key reader, annunciator/buzzer and main printed circuit board; Dimensions: 11.375 in x 11.25 in x 3.5 in	For use with M110 and M800 RTUs	Medicin
E4103M	Enclosure—NEMA 1 MyDro Replacement; Includes: electronic key reader, and annunciator/buzzer; Dimensions: 11.375 in x 11.25 in x 3.5 in	Does not include printed circuit board; For use with MyDro 150 and MyDro 850 RTUs	
E428	Enclosure—NEMA 4X Legacy Replacement; Includes: hardware, electronic key reader, annunciator/buzzer and main printed circuit board; Dimensions: 13.25 in x 13.75 in x 6.25 in	For use with M110 and M800 RTUs	The second secon
E428M	Enclosure—NEMA 4X MyDro Replacement; Includes: hardware, electronic key reader, and annunciator/buzzer; Dimensions: 13.25 in x 13.75 in x 6.25 in	Does not include printed circuit board; For use with MyDro 150 and MyDro 850 RTUs	

Mission Part No.	Item Description and Specifications	Notes	Image
CP450	Keys—Electronic Package of 5	Place RTUs into service mode when doing maintenance and acknowledge alarms; For use with MyDro and Legacy RTUs	
CP421	Key Reader—Legacy Replacement; Electronic	For use with M110 and M800 RTUs	
CP421- MyDro	Key Reader—MyDro Replacement; Electronic	LED is active when used with MyDro RTUs; For use with MyDro 150 and MyDro 850 RTUs	
CP627	LCD—MyDro Replacement; For use with CP626	Connector plugs into mainboard; Display is held in place by 4 screws; For use with MyDro 150 and MyDro 850 RTUs	
CP625	Printed Circuit Board—Main/Legacy Replacement	Specify device serial #, radio type, chip firmware version, and RTU series; For use with M110 and M800 RTUs	

Replacement and Component Parts

Mission Part No.	Item Description and Specifications	Notes	lmage
CP626	Printed Circuit Board—Main/MyDro	Specify device serial #, radio type, chip firmware version, and RTU series; For use with M150 and M850 RTUs; Does not include LCD	
CP652	Printed Circuit Board—Wet Well Module, Revision 2 Replacement	For use with M110 and M800 RTUs	
CP628	Printed Circuit Board Assembly—Main/MyDro Main printed circuit board, LCD screen, connector kit, and adapter	For use with MyDro 150 and MyDro 850 RTUs	
RL	Radio Replacement—Legacy For M110 and M800	For use with M110 and M800 RTUs; Contact Mission for details regarding current radios	NO IMAGE AVAILABLE
RM	Radio Replacement—MyDro For MyDro 150, MyDro 850, and Manhole Monitor	For use with MyDro 150 and MyDro 850 RTUs; Contact Mission for details regarding current radios	NO IMAGE AVAILABLE

Notes	

RTU Accessories and Kits

The Universal Stand is convenient and customizable for mounting a wide variety of items including a remote terminal unit, rain tipping bucket, solar panel, and antenna. It's available as a kit or as individual components. The unique design of the main plate allows rainfall and solar systems to be adjusted for level, angle (Southerly) and attitude (winter vs. summer).

The base can be mounted directly to a slab or with the included stabilizing struts. The inherent design and struts make for a stable, low center of gravity system. Extremely windy environments or roof mount applications where penetrations are undesirable can be further stabilized with cinder blocks, sand bags, longer struts or pressure treated 2x4s, all items available at big-box home stores. Likewise the included 60" height vertical strut can be replaced with a longer one to improve solar or antenna performance.

Mission rainfall kits come with all necessary accessory parts to set up a weather reporting station. RTUs can connect to industry-standard pulse based rainfall tipping buckets such as the high quality one we offer on Page 39. Local rainfall information facilitates comparisons to pump runtimes or flow meters for inflow and infiltration (I&I) studies or long term trending. Users can associate a single rain tipping to multiple RTUs in the area.

Solar kits are available for site locations with no access to AC power. They are suitable for use with M850 RTUs and include a larger battery and enclosure than the standard NEMA 4X MyDro. For more solar options, see the next section of this catalog.

For more details on the various ways the universal stand can be used please consult the installation manual available via 123SCADA.com or by contacting Mission.



Universal stand with rain tipping bucket and solar panel

Mission Part No.	Item Description and Specifications	Notes	Image
CP350	Universal Stand (Full Stand Assembly) Includes: universal stand (unistrut) and hardware Dimensions: 40 in x 42 in Height without rain tipping bucket: 62 in Height with rain tipping bucket: 74 in Weight: 35 lbs	For use with rain tipping bucket, antenna, solar panel, and/or NEMA 4X; does not include solar bracket Ships in two packages	SEE PAGE 26
CP352	Universal Stand Base Only Includes: universal stand base and hardware Dimensions: 18.125 in x 11.125 in x 7.75 in Weight: 7 lbs	Typically used with Universal Stand assembly; can be used with unistrut or telescoping round tube	
CP351	Mainplate Only Includes: mainplate and hardware Dimensions: 7.65 in x 7.65 in x 1.58 in Weight: 2.1 lbs	Typically used with rain tipping bucket as part of Universal Stand assembly	
CP355	Solar Bracket Only (set of two brackets and joining plate) Includes: two solar brackets, joining plate, and hardware Dimensions: 19.3 in x 4.25 in x 8.5 in Weight: 3.5 lbs	Typically used with solar panel as part of Universal Stand assembly	
RF436	Antenna Bracket Includes: antenna bracket and hardware Dimensions: 7 in x 6.25 in x 6.6 in Weight: 0.5 lbs	Typically used with Universal Stand assembly	

Mission Part No.	Item Description and Specifications	Notes	Image
CP353	Upper Leveling Bracket Includes: upper leveling bracket and hardware Dimensions: 6.8 in (diameter) x 5.1 in; lower strut - 1.85 in x 1.725 in Weight: 1 lb	Typically used with Universal Stand assembly	
KT278	Rainfall Kit MyDro—AC Includes: rainfall tipping bucket, universal stand, and pulse input expansion module	For use with AC powered M150 and M850 series RTUs (not included) Items not to scale Not pictured: Universal Stand	
KT280	Rainfall Kit MyDro—20 W Solar Includes: rainfall tipping bucket, universal stand, pulse input expansion module, large NEMA 4X enclosure, 20 W solar panel, solar panel mounting rack, solar charge regulator and 35 Ah battery	Typically used with M850 series RTUs (not included) Items not to scale Not pictured: Universal Stand	
KT862	Solar Kit MyDro—20 W Includes: 20 W solar panel, solar panel mounting brackets, large NEMA 4X enclosure, 35 Ah battery, and solar charge regulator	Typically used with M850 RTUs (not included) Items not to scale	

Notes	

Solar Options

For applications where local utility AC power is not available, Mission offers solar battery operation. Power requirements should be calculated using the worst case scenario. The battery should be able to power the RTU for the longest period of time the site is estimated to be without sun.

Mission utilizes polycrystalline solar panels, which offer the best solar coverage for their value. They work best when they are pointed to the south and not shadowed. It is recommended that users adjust the positioning of solar panels seasonally.

Contact orders@123mc.com for modifications to accessories that include multiple components.



Solar application using 20 W solar panel

Mission Part No.	Item Description and Specifications	Notes	Image
PW862	Battery—35 Ah Dimensions: 5 in x 7.5 in x 7 in; Weight: 25 lbs	Only fits in Large NEMA 4X Enclosure; Included with solar powered RTUs and 20 W solar kit	DURACELL
PW865	Charge Regulator—SunSaver 12 V	Included with solar-powered RTUs and 20 W solar kit	SINCAUTE CO
E865	Enclosure—Large NEMA 4X Legacy Assembled; Includes: hardware, electronic key reader, and annunciator/buzzer; Dimensions: 7.25 in x 13 in 15.84 in	Included with solar-powered RTUs and 20 W solar kit; Does not include printed circuit board	
E865M	Enclosure—Large NEMA 4X MyDro Assembled; Includes: hardware, electronic key reader, and annunciator/buzzer; Dimensions: 7.25 in x 13 in 15.84 in	Included with solar-powered RTUs and 20 W solar kit; Does not include printed circuit board	
CP864	Mounting Rack For 20 W solar panel	Included with solar-powered RTUs and 20 W solar kit	II WO OR SHEET

Solar Options

Mission Part No.	Item Description and Specifications	Notes	lmage
CP868	Solar Panel—20 W Dimensions: 22.68 in x 14.06 in x 1.97 in	Included with solar-powered RTUs and 20 W solar kit	

Notes	

Specialty Software and Upgrades Options

Mission offers specialty software and upgrade options for customers with advanced applications. The two most prominent offerings are the Tank and Well Control Package and the OPC-UA link to an existing SCADA HMI.

Tank and Well Control Package

The RTU at the water tank transmits level information to Mission servers. When the tank level is outside the user configurable level boundaries, a command is automatically sent to output relays on the same RTU or remote RTUs to energize pumps or valves and refill the tank. The Tank and Well software supports up to five pumps. RTUs may be connected to additional equipment such as chlorine monitors or other alarm inputs and can be solar-powered.

OPC-UA

OPC-UA is an industrial communication protocol developed for process control and is the successor to the OPC Classic protocol. It offers enhanced security, stability, and software support with added features like multi-platform support. OPC-UA simplifies connections because it no longer depends on legacy Microsoft COM/DCOM technologies. The new protocol also makes firewall client-side configurations much easier.

RTU data is continuously stored on the Mission data servers so the Mission web portal is always available for viewing, configuration, and other functions. Some OPC customers use Mission for telemetry and their SCADA-HMI for alarming and reporting. Others take a hybrid approach where alarm call-outs and acknowledgments are performed by Mission and their traditional system tracks history. Other managers use Mission as a backup system and only enable Mission alarm call-out functions when they are needed.

Mission Part No.	Item Description and Specifications	Notes	Image
SW550	New Account/Website Setup	One-time fee per account; Non-ship item	NO IMAGE AVAILABLE
SW586	SCADA Integration—OPC-UA Link Over Internet	One-time fee per account; Non-ship item	NO IMAGE AVAILABLE
SW590	SCADA Integration—VPN Setup for OPC	Optional addition to PN SW586; One-time fee per account; Non-ship item	NO IMAGE AVAILABLE
SW587	Tank and Well Control Package Supports up to 5 well pumps	One-time fee per source tank; For use with M800 or M850 series RTUs only; Non-ship item	NO IMAGE AVAILABLE
SP-1Up- grade	Service Package—M110/M150 Upgrade Proration from M110 to M800 series or M150 to M850 series; 1 month	Included with SW800 to add to remaining service; Non-ship item; Supply device name or serial number to accounting@123mc.com for quote	NO IMAGE AVAILABLE

Specialty Software and Upgrade Options

Mission Part No.	Item Description and Specifications	Notes	lmage
SW800	Upgrade—M110 to M800 or M150 to M850 Over-the-air conversion; Service package will be converted from M110 to M800 or M150 to M850	Service package upgrade will be prorated; Non- ship item; Supply device name or serial number to accounting@123mc.com for quote	NO IMAGE AVAILABLE
SW588	PBARC - Pulse Based Automated Remote Control	Requires pulse input expansion (PN OP464) or option board (PN OP463); Non-ship item	NO IMAGE AVAILABLE
AF¹	Digital Interconnect	For use with MyDro RTU; Non-ship item	NO IMAGE AVAILABLE
AF ²	Analog Interconnect	For use with MyDro RTU; Requires Analog Output Expansion Board (PN OP461) and service; Non-ship item	NO IMAGE AVAILABLE
AF¹	Temperature Interconnect	Non-ship item	NO IMAGE AVAILABLE

Notes

Transducers and Instrumentation

Transducers allow Mission RTUs to present continuously variable signals like level or pressure on the customer web portal.

Current transducers can be used to monitor motor current for pumps and blowers.

Other instrumentation like a rainfall tipping bucket can be used with a Mission pulse expansion module to measure local rainfall at the Mission RTU.



Mission Part No.	Item Description and Specifications	Notes	Image
IT475	Loop Isolator—Signal Conditioner Universal signal conditioning module; Active, requires external power supply, configurable for multiple input and output formats		A de manage was a series of the series of th
IT476	Loop Isolator—Passive 4–20 mA, loop-powered, non-adjustable range/span		
IT476P12	Loop Isolator—Powered 4–20 mA, 12 VDC supply required		SEMOTIANA —
IT476P24	Loop Isolator—Powered 4–20 mA, 24 VDC supply required		Te-LD.
IT251	Rainfall Tipping Bucket NOAA-compliant, corrosion-resistant metal, measurements in 1/100th in of rain	Requires pulse input option board (PN OP463) or pulse expansion module (PN OP464)	

Transducers and Instrumentation

Mission Part No.	Item Description and Specifications	Notes	Image
IT482	Surge Protector—Analog For use with 4–20 mA loop circuits	Included with pressure transducers (PN IT465S, IT472S, IT473S, IT474S, IT477S)	C. T. E
IT484	Transducer—Current Switchable 0–30, 0–60, 0–120 A; 4–20 mA output	Used to measure current draw of a pump, blower, or other type of motor	
IT470-1	Transducer—Level, 0–15 ft, 40-ft Cable Submersible, loop-powered, 2-wire transducer; 4–20 mA DC output over 0–6.5 PSI span (0–15 ft); 40-ft signal cable; Includes: sealed breather system and integral surge protector	For custom cable length, order direct from vendor; Call Mission for details	
IT470-2	Transducer—Level, 0–23 ft, 40-ft Cable Submersible, loop-powered, 2-wire transducer; 4–20 mA DC output over 0–10 PSI span (0–23.1 ft); 40-ft signal cable; Includes: sealed breather system and integral surge protector	For custom cable length, order direct from vendor; Call Mission for details	
IT470-3	Transducer—Level, 0–23 ft, 65-ft Cable Submersible, loop-powered, 2-wire transducer; 4–20 mA DC output over 0–10 PSI span (0-23.1 ft); 65-ft signal cable; Includes: sealed breather system and integral surge protector	For custom cable length, order direct from vendor; Call Mission for details	

Mission Part No.	Item Description and Specifications	Notes	Image
IT470-4	Transducer—Level, 0–23 ft, 55-ft Cable Submersible, loop-powered, 2-wire transducer; 4–20 mA DC output over 0–6.5 PSI span (0-15 ft); 65-ft signal cable; Includes: sealed breather system and integral surge protector	For custom cable length, order direct from vendor; Call Mission for details	
IT470-5	Transducer—Level, 0–15 ft, 65-ft Cable Submersible, loop-powered, 2-wire transducer; 4–20 mA DC output over 0–6.5 PSI span (0-15 ft); 65-ft signal cable; Includes: sealed breather system and integral surge protector	For custom cable length, order direct from vendor; Call Mission for details	
IT465S	Transducer—Pressure, 0–30 PSI Non-submersible, 4–20 mA, 36-in non-submersible cable, ceramic sensor; 1/4-in NPT 316L SS process connection, 1% FS accuracy; 9–30 VDC supply voltage; 1000 Ω max load resistance (at 30 VDC); 60 PSI max pressure, 300 PSI over pressure; Comes with surge protector		
IT472S	Transducer—Pressure, 0–75 PSI Non-submersible, 4–20 mA, 36-in non-submersible cable, ceramic oil-filled sensor; 1/4-in NPT 316L SS process connection, 1% FS accuracy; 9–30 VDC supply voltage; 1000 Ω max load resistance (at 30 VDC); 100 PSI max pressure, 300 PSI over pressure; Comes with surge protector		CITES.
IT473S	Transducer—Pressure, 0–150 PSI Non-submersible, 4–20 mA, 36-in non-submersible cable, ceramic sensor; 1/4-in NPT 316L SS process connection, 1% FS accuracy; 9–30 VDC supply voltage, 1000 Ω max load resistance (at 30 VDC); 300 PSI max pressure, 750 PSI over pressure; Comes with surge protector		

Mission Part No.	Item Description and Specifications	Notes	lmage
IT477S	Transducer—Pressure, 0–15 PSI Non-submersible, 4–20 mA, 36-in non-submersible cable, ceramic oil-filled sensor; 1/4-in NPT 316L SS process connection, 1% FS accuracy; 9–30 VDC supply voltage; 1000 Ω max load resistance (at 30 VDC); 30 PSI max pressure, 150 PSI over pressure; Comes with surge protector		TT CONTRACTOR
IT474S	Transducer—Pressure, 0–75 PSI Non-submersible, 0–5 VDC, 36-in non-submersible cable, ceramic oil-filled sensor; 1/4-in NPT 316L SS process connection, 1% FS accuracy; 9–30 VDC supply voltage; 1000 Ω max load resistance (at 30 VDC), 100 PSI max pressure; 300 PSI over pressure; Comes with surge protector	Recommended for solar applications	

Notes



Web

123mc.com

Technical Support

(877) 993-1911 option 2 techsupport@123mc.com orders@123mc.com

Sales

sales@123mc.com (877) 993-1911 option 4