

Controller Assembly Options

MASTER LIST FOR HUNTER INDUSTRIES® CONTROLLER ASSEMBLY OPTIONS

IMMS™ CENTRAL SYSTEM

PART#	DESCRIPTION
IMMS4-SFT	HUNTER® IMMS SOFTWARE (Does not include Computer Package)
IMMS-ET-SFT	HUNTER® ET SOFTWARE
CCC	HUNTER® CENTRAL COMMUNICATION UNIT

CENTRALUST™ - IRRIGATION MANAGEMENT PLATFORM FOR ACC2 ONLY

PART#	DESCRIPTION
A2C-CELL	HUNTER® NETWORKING MODULE – CELLULAR
A2C-ETH	HUNTER® NETWORKING MODULE - ETHERNET
A2C-WF	HUNTER® NETWORKING MODULE – WIFI

IMMS COMMUNICATIONS – ACC CONTROLLER

PART#	DESCRIPTION
A2C-CELL	HUNTER® COMMUNICATION MODULE – DIAL TELEPHONE
A2C-ETH	HUNTER® COMMUNICATION MODULE - ETHERNET
A-P2P-GPRS	HUNTER® COMMUNICATION MODULE – CELLULAR DATA (Single Controller)
A-COM-GPRS	HUNTER® COMMUNICATION MODULE – CELLULAR DATA + Additional Controllers)
A-GSM	HUNTER® COMMUNICATION MODULE - CELLULAR
A-HWR	HUNTER® COMMUNICATION MODULE - HARDWIRE - RADIO
A-HWIM	HUNTER® HARDWIRE COMMUNICATION MODULE
A-RADD	HUNTER® RADIO MODULE + DOME ANTENNA
A-RADW	HUNTER® RADIO MODULE + WHIP ANTENNA
A-RADY	HUNTER® RADIO MODULE + YAGI ANTENNA

HUNTER® FLOW SENSORS

PART#	DESCRIPTION
A2C-CELL	HUNTER® FLOW CLIK™ SHUT-OFF ASSEMBLY (Normally Closed MV only)
FCI-XXX	HUNTER® FLOW CLIK™ SHUT-OFF ASSEMBLY for IMMS™ (Normally Closed MV only)
AFS-XXX	HUNTER® FLOW SHUT-OFF ASSEMBLY (Normally Closed only)

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WEATHER SENSORS:

WEATHER STATION OPTIONS FOR IMMST™ SYSTEM

PART#	DESCRIPTION
IMWS	HUNTER® IMMS SOFTWARE (Does not include Computer Package)
IMWSF	HUNTER® MINI WEATHER STATION WITH FREEZE
IMWSP	HUNTER® MINI WEATHER STATION – POLE MOUNTED
IMWSFP	HUNTER® MINI WEATHER STATION W/ FREEZE - POLE MOUNTED

ET SYSTEM SENSORS FOR ALL SMART PORT™ ENABLED CONTROLLERS

PART#	DESCRIPTION
SOLS	HUNTER® SOLAR SYNC
IMWSF	HUNTER® SOLAR SYNC – POLE MOUNTED
IMWSP	HUNTER® SOLAR SYNC – ENCLOSURE MOUNTED
IMWSFP	HUNTER® SOLAR SYNC – WIRELESS
ETS	HUNTER® ET SYSTEM
ETSP	HUNTER® ET SYSTEM and POLE ASSEMBLY
ETSW	HUNTER® ET SYSTEM and WIND SENSOR ASSEMBLY
ETSWP	HUNTER® ET SYSTEM and WIND SENSOR and POLE ASSEMBLY
SOILCK	HUNTER® SOIL CLIK™

REMOTE CONTROLS

PART#	DESCRIPTION
ROAM-XL	HUNTER® REMOTE CONTROL RECEIVER and LoPro ANTENNA
ROAM-X	HUNTER® REMOTE CONTROL TRANSMITTER
ROAM-R	HUNTER® REMOTE CONTROL RECEIVER and LoPro ANTENNA
ANT-D	REMOTE ANTENNA FOR STAINLESS STEEL ENCLOSURES

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DECODER SYSTEM OPTIONS

PART#	DESCRIPTION
ICD-1	HUNTER® SINGLE STATION DECODER W/ SURGE SUPPRESSION
ICD-2	HUNTER® TWO-STATION DECODER W/ SURGE SUPPRESSION
ICD-4	HUNTER® FOUR-STATION DECODER W/ SURGE SUPPRESSION
ICD-6	HUNTER® SIX-STATION DECODER W/ SURGE SUPPRESSION
ICD-S	HUNTER® SENSOR DECODER W/ SURGE SUPPRESSION
DL-1	HUNTER® DUAL CONTROLLER SINGLE STATION DECODER W/ SURGE SUPPRESSION
DL-2	HUNTER® DUAL CONTROLLER TWO-STATION DECODER W/ SURGE SUPPRESSION
DL-S	HUNTER® DUAL CONTROLLER SURGE ARRESTOR
EZ1DEC	HUNTER® EZDS SINGLE STATION DECODER W/ SURGE SUPPRESSION FOR ICC2 & HCC ONLY
EZDECMOD	HUNTER® EZDS DECODER OUTPUT MODULE FOR ICC2 & HCC ONLY
ICD-HP	HUNTER® HAND HELD DECODER PROGRAMMER

GROUNDING OPTIONS

PART#	DESCRIPTION
GR-K	8' GROUND ROD AND CLAMP KIT (For two wire decoder path)
GP8-K	8' GROUND PLATE KIT with 25' of #6 GROUNDING WIRE
GP3-K	3' GROUND PLATE KIT with 10' of #6 GROUNDING WIRE

Controller Assembly Options

MASTER LIST FOR HUNTER INDUSTRIES® CONTROLLER ASSEMBLY OPTIONS

COMMUNICATION and FLOW SENSING CABLE (Specified and purchased separately)

PART#	DESCRIPTION
P-7171D**	PAIGE ELECTRIC COMMUNICATION CABLE – 2 pair/18 AWG. The construction shall be made of tin coated copper conductors, an aluminum shield to prevent cross-talk, a drain wire for grounding the cable and an overall PE outer jacket. The colors of the outer jacket shall be as called-for in the irrigation plans and specifications.
IDWIRE1	HUNTER DECODER SYSTEM WIRE - 2 conductor 14 AWG single conductor insulated, twisted, soft drawn bare copper covered with .060" polyethylene insulation. The two conductors shall be color coded with one conductor red and the other blue. Maximum distance = 10,000 feet for ACC or 5,000 feet for DUAL. Indicate cable jacket color – Gray, Purple, Yellow, Orange, Blue, or Tan.
IDWIRE2	HUNTER DECODER SYSTEM WIRE - 2 conductor 12 AWG single conductor insulated, twisted, soft drawn bare copper covered with .060" polyethylene insulation. The two conductors shall be color coded with one conductor red and the other blue. Maximum distance = 15,000 feet for ACC or 7,500 feet for DUAL. Indicate cable jacket color – Gray, Purple, Yellow, Orange, Blue, or Tan.
FSW16**	FLOW SENSING CABLE – 2 conductor 16 AWG stranded annealed copper covered with a .004 wall of stabilizing nylon. The conductors shall be twisted and encased in a single outer jacket of .050". The two conductors shall be color coded with one conductor red and the other black. Maximum distance is 2000'.
**It is recommended that Communication and Flow Sensing Cable be installed in conduit with pull boxes located every 250' and at all crossings. Please refer to the customers requirements for specific conduit size and pull box requirements.	

Controller Assembly Options

SPECIFICATIONS FOR HUNTER INDUSTRIES® CONTROLLER OPTIONS

Central Communications Options for IMMS Central Computer System Only

PART#	DESCRIPTION
IMMS4-SFT	<p>HUNTER® IMMS3 SOFTWARE (Does not include Computer Package) The Controller Assembly shall be provided with the Hunter® IMMS3 Software Package for the purpose of operating Hunter® ICC or ACC Controllers remotely via direct-connect, dial up telephone, cellular or radio communication. Up to 100 different communication sites with each site capable of 100 controllers may be accessed via a single IMMS Central Control System. For more detailed information, please refer to the manufacturer's website or catalog. The central computer hardware is not included with the IMMS4-CD software. This must be purchased separately. The IMMS4-CD runs on Windows® XP, Vista, Windows 7, or Windows 8</p>
IMMS-ET-SFT	<p>HUNTER® Optional ET SOFTWARE (Does not include Computer Package) The Controller Assembly shall be provided with the Hunter® IMMS-ET-SFT Software Package for the purpose of operating Hunter® ET automatic weather adjustment via IMMS3 central software. Requires IMMS3-SFT base model software. For more detailed information, please refer to the manufacturer's website or catalog. This must be purchased separately. The IMMS4-ET-CD runs on Windows® XP, Vista, Windows 7, or Windows 8.</p>
IDWIRE2	<p>HUNTER® CENTRAL COMMUNICATION UNIT The Controller Assembly shall be provided with a Hunter® Central Communication Unit for the purpose of allowing direct-connect hard-wire communication from a central computer and a primary ACC Controller. Only one CCC is required per computer system.</p>

Centralus™ Irrigation Management Platform for ACC2 Only

PART#	DESCRIPTION
A2C-CELL	<p>HUNTER® NETWORKING MODULE – CELLULAR The Controller Assembly shall be provided with a Hunter® Networking Cellular Module for the purpose of receiving cellular modem communication from a web based computer, smart phone, or tablet to an ACC2 controller located on-site. Cellular data service is included with the 1st year via cellular service provider (ATT or T-Mobile).</p>
A2C-ETH	<p>HUNTER® NETWORKING MODULE – ETHERNET The Controller Assembly shall be provided with a Hunter® Networking Ethernet Module for the purpose of receiving Ethernet via a RJ-45 connector from web based computer, smart phone, or tablet to an ACC2 controller located on-site.</p>
A2C-WF	<p>HUNTER® NETWORK MODULE – WIFI The Controller Assembly shall be provided with a Hunter® Networking WiFi Module for the purpose of receiving direct Wireless Ethernet server modem communication from a web based computer, smart phone, or tablet to a ACC2 controller located on-site.</p>

Controller Assembly Options

SPECIFICATIONS FOR HUNTER INDUSTRIES® CONTROLLER OPTIONS

ACC Communications Options – Central Computer to ACC Controller (for use with IMMS System only)

PART#	DESCRIPTION
	HUNTER® COMMUNICATION MODULE – STANDARD TELEPHONE
A-POTS	The Controller Assembly shall be provided with a Hunter® Communication module for the purpose of receiving dial up communication from a central computer to a master ACC controller located on-site. Only one A-POTS is required per site and may communicate with up to 100 controllers via hardwire cable using a #A-HWIM Communication module or radio via RAD3 Radio Communication
	HUNTER® COMMUNICATION MODULE – ETHERNET
A-ETH	The Controller Assembly shall be provided with a Hunter® Ethernet Communication Module for the purpose of receiving direct ethernet server modem communication from a central computer to a master ACC controller located on-site. Only one A-ETH is required per site and may communicate with up to 100 controllers via hardwire cable using a #A-HWIM Communication module or radio via RAD3 Radio Communication.
	HUNTER® COMMUNICATION MODULE – GPRS CELLULAR TELEPHONE
A-P2P-GPRS	The Controller Assembly shall be provided with a Hunter® GPRS Cellular Communication Module for the purpose of receiving cellular telephone modem communication from a central computer to a master ACC controller located on-site. For single controller application. Note: The A-P2P-GPRS is designed for a single controller only, not for sharing with additional controllers.
	HUNTER® COMMUNICATION MODULE – GPRS CELLULAR TELEPHONE + ADDITIONAL CONTROLS
A-COM-GPRS	The Controller Assembly shall be provided with a Hunter® GPRS Cellular Communication Module for the purpose of receiving cellular telephone modem communication from a central computer to a master ACC controller located on-site. Only one A-GPRS is required per site and may communicate with up to 100 controllers via hardwire cable using a #A-HWIM Communication module or radio via RAD3 Radio Communication. Note: The A-COM-GPRS is designed for a GPRS Cellular to first controller with the ability to connect additional controllers to this controller via hardwire or radio.
	HUNTER® COMMUNICATION MODULE – GSM CELLULAR TELEPHONE
A-GSM	The Controller Assembly shall be provided with a Hunter® GSM Cellular Communication Module for the purpose of receiving cellular telephone modem communication from a central computer to a master ACC controller located on-site. Only one A-GSM is required per site and may communicate with up to 100 controllers via hardwire cable using a #A-HWIM Communication module or radio via RAD3 Radio Communication.
	HUNTER® COMMUNICATION MODULE - HARDWARE
A-HWR	The Controller Assembly shall be provided with a Hunter® Hardwire Communication Module for the purpose of receiving direct-connect communication from a central computer to a primary ACC controller or controller to controller located on-site. Only one A-HWR is required per site and may communicate with up to 100 controllers via hardwire cable using a #A-HWIM Communication module or radio via RAD3 Radio Communication. Note: any one of the above Communication Modules will also be necessary on a single ACC Controller in which both hardwire and UHF Radio is utilized concurrently. This controller would also require a HWIM Module and a RAD3 Radio Kit. Distance of communication between the A-HWR is limited to ½ to 2 miles. FCC Licensing is required for UHF communication. The Radio Module (#A-RAD3) is not included with the A-HWR Module and must also be included with each ACC controller connected to this master ACC controller.

Controller Assembly Options

SPECIFICATIONS FOR HUNTER INDUSTRIES® CONTROLLER OPTIONS

ACC Communications Options Cont. – Central Computer to ACC Controller only

PART#	DESCRIPTION
	HUNTER® HARDWARE CONNECTION INTERFACE MODULE
A-HWIM	The Controller Assembly shall be provided with a Hunter® Hardware Interface Module for the purpose of communicating, via hardwire only, to any and all ACC controllers connected to a master ACC controller. The Hardwire Connection Module is necessary for any controller, in which hardwire connections (in or out) are used. One A-HWIM is required per ACC controller up to 100 controllers per site.

ACC Radio Options (For use with ACC and ACC-99D Controllers only; for use with IMMS System Only)

PART#	DESCRIPTION
	HUNTER® RADIO MODULE + DOME ANTENNA
A-RADD	The Controller Assembly shall be provided with a Hunter® UHF Radio Module, 450- 470 MHz Narrowband Radio, and Dome Antenna for the purpose of communicating via this radio communication between the master ACC controller and all other ACC controllers it is communicating to. There may be up to 100 controllers communicated to from the primary ACC controller via UHF Radio. The ACC may also support a combination of radio and hardwire communication using the #A-HWIM Hardwire Module allowing for some locations to utilize radio + hardwire for any grouping of ACC controllers.

	HUNTER® RADIO MODULE + WHIP ANTENNA
A-RADW	The Controller Assembly shall be provided with a Hunter® UHF Radio Module, 450-470 MHz Narrowband Radio, and Whip Antenna for the purpose of communicating via this radio communication between the primary ACC controller and all other ACC controllers it is communicating to. There may be up to 100 controllers communicated to from the primary ACC controller via UHF Radio. The ACC may also support a combination of radio and hardwire communication using the #A-HWIM Hardwire Module allowing for some locations to utilize radio + hardwire for any grouping of ACC controllers.

	HUNTER® RADIO MODULE + YAGI DIRECTIONAL ANTENNA
A-RADY	The Controller Assembly shall be provided with a Hunter® UHF Radio Module, 450-470 MHz Narrowband Radio, and Yagi Directional Antenna for the purpose of communicating via this radio communication between the primary ACC controller and all other ACC controllers it is communicating to. There may be up to 100 controllers communicated to from the primary ACC controller via UHF Radio. The ACC may also support a combination of radio and hardwire communication using the #A-HWIM Hardwire Module allowing for some locations to utilize radio + hardwire any grouping of ACC controllers.

ACC Radio Options (For use with ACC and ACC-99D Controllers only; for use with IMMS System Only)

PART#	DESCRIPTION
	HUNTER® FLOW SYNC® ASSEMBLY
AFS-XXX	(HUFFS series is for normally open or closed master valves) The Controller Assembly shall be provided with a Hunter® Flow Sync® assembly for use in conjunction with a master valve to monitor and shut down the irrigation system in the event of an excess flow condition. This assembly shall consist of an interface panel, reset switch and a tee mounted flow sensor for installation in the piping system.

Controller Assembly Options

SPECIFICATIONS FOR HUNTER INDUSTRIES® CONTROLLER OPTIONS

ACC Communications Options Cont. – Central Computer to ACC Controller only

PART #	DESCRIPTION
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A-HWIM **HUNTER® HARDWARE CONNECTION INTERFACE MODULE**
 The Controller Assembly shall be provided with a Hunter® Hardwire Interface Module for the purpose of communicating, via hardwire only, to any and all ACC controllers connected to a master ACC controller. The Hardwire Connection Module is necessary for any controller, in which hardwire connections (in or out) are used. One A-HWIM is required per ACC controller up to 100 controllers per site.

Part #	Pipe Size	Velocity (FPS)	Flow Range
HUFS-100	1" Sch. 40	1 - 5 FPS	2-17 GPM
HUFS-150	1 ½" Sch. 80	½ - 5 FPS	5-35 GPM
HUFS-200	2" Sch. 80	½ - 5 FPS	10-55 GPM
HUFS-300	3" Sch. 80	½ - 5 FPS	28-120 GPM
HUFS-400	4" Sch. 40	½ - 5 FPS	34-195 GPM

*The high flow gpm is based on a velocity not exceeding 5 ft/sec. for Class 200 IPS pipe and pressures that do not exceed 200 PSI.
 Note - Cable: The maximum distance between the interface panel and sensor is 1000'. Two wires (18ga. Minimum) are required for FC Flow Sensor Assemblies and four wires (18 ga. Minimum) are required for FCI Flow Sensor Assemblies.

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SPECIFICATIONS FOR HUNTER INDUSTRIES® CONTROLLER OPTIONS

Weather Station Options

PART#	DESCRIPTION
IMWS	HUNTER® MINI WEATHER STATION (For use with the ACC and ACC-99D Controllers used with IMMS System Only) The Controller Assembly shall be provided with a Mini Weather Station for the purpose of global system adjustments for rain and wind. The Mini Weather Station may be connected to a Site Interface for global sensing and to a Controller Interface for local sensing. The MWS includes a Mini-Clik™ Rain Sensor and Wind-Clik™ Wind Sensor.
IMWSF	HUNTER® MINI WEATHER STATION (For use with the ACC and ACC-99D Controllers used with IMMS System Only) The Controller Assembly shall be provided with a Mini Weather Station for the purpose of global system adjustments for rain and wind. The Mini Weather Station may be connected to a Site Interface for global sensing and to a Controller Interface for local sensing. The MWS includes a Mini-Clik™ Rain Sensor, Wind-Clik™ Wind Sensor, and Freeze-Clik™ Freeze Sensor.
IMWSP	HUNTER® MINI WEATHER STATION – POLE MOUNTED (For use with the ACC and ACC-99D Controllers used with IMMS System Only) The Controller Assembly shall be provided with a Mini Weather Station for the purpose of global system adjustments for rain and wind. The Mini Weather Station may be connected to a Site Interface for global sensing and to a Controller Interface for local sensing. The MWSP includes a Mini-Clik™ Rain Sensor and Wind-Clik™ Wind Sensor and twelve foot by 2 inch pole for mounting.
IMWSFP	HUNTER® MINI WEATHER STATION – POLE MOUNTED (For use with the ACC and ACC-99D Controllers used with IMMS System Only) The Controller Assembly shall be provided with a Mini Weather Station for the purpose of global system adjustments for rain, wind and freeze. The Mini Weather Station may be connected to a Site Interface for global sensing and to a Controller Interface for local sensing. The MWSFP includes a Mini-Clik™ Rain Sensor, Wind-Clik™ Wind Sensor, Freeze-Clik™ Freeze Sensor and twelve foot by 2 inch pole for mounting.

ET Sensor Options

PART#	DESCRIPTION
SOLS	HUNTER® SOLAR SYNC The Controller Assembly shall be provided with a Solar Sync Module and Sensor for the purpose of calculating a local EvapoTranspiration factor and downloading to your controller(s). The Solar Sync shall include a pre-mounted Solar Sync Module and Solar Sync sensor assembly. The Solar Sync assembly includes a solar radiation, and temperature sensor, and rain sensor. The Solar Sync Module shall be mounted with ten (10") inches of an ICC2, ACC, ACC2, ACC 99D, ACC2 Decoder, I Core, Dual, or Pro-C controller and the Solar Sync Sensor must be mounted within two hundred (200') of the Solar Sync Module
SOLS-P	HUNTER® SOLAR SYNC and POLE ASSEMBLY The Controller Assembly shall be provided with a Solar Sync Module and Sensor for the purpose of calculating a local EvapoTranspiration factor and downloading to your controller(s). The Solar Sync shall include a pre-mounted Solar Sync Module and Solar Sync sensor assembly. The Solar Sync assembly includes a solar radiation, and temperature sensor, and rain sensor. The Solar Sync Module shall be mounted with ten (10") inches of an ICC2, ACC, ACC2, ACC 99D, ACC2 Decoder, I Core, Dual, or Pro-C controller and the Solar Sync Sensor must be mounted within two hundred (200') of the Solar Sync Module. A twelve foot by 1" pole shall be included.
SOLSE	HUNTER® SOLAR SYNC ENCLOSURE MOUNT The Controller Assembly shall be provided with a Solar Sync Module and Sensor for the purpose of calculating a local EvapoTranspiration factor and downloading to your controller(s). The Solar Sync shall include a pre-mounted Solar Sync Module and I.T.S. enclosure mounted Solar Sync sensor assembly. The Solar Sync assembly includes a solar radiation, and temperature sensor, and rain sensor. The Solar Sync Module shall be mounted with ten (10") inches of an ICC2, ACC, ACC2, ACC 99D, ACC2 Decoder, I Core, Dual, or Pro-C controller and the Solar Sync Sensor must be mounted within two hundred (200') of the Solar Sync Module.

Controller Assembly Options

SPECIFICATIONS FOR HUNTER INDUSTRIES® CONTROLLER OPTIONS

ET System Options Cont.

PART#	DESCRIPTION
SOLSW	<p>HUNTER® SOLAR SYNC - WIRELESS</p> <p>The Controller Assembly shall be provided with a Solar Sync Module and Sensor for the purpose of calculating a local EvapoTranspiration factor and downloading to your controller(s). The Solar Sync shall include a pre-mounted Solar Sync Module and Receiver and Wireless Solar Sync sensor assembly. The Solar Sync sensor assembly includes a solar radiation, and temperature sensor, and rain sensor. The Solar Sync Module must be mounted with ten (10") inches of an ICC2, ACC, ACC2, ACC 99D, ACC2 Decoder, I Core, Dual, or Pro-C controller and the Solar Sync Sensor must be mounted within eight hundred feet (800') line of sight of the Solar Sync Module and Receiver.</p>
ETS	<p>HUNTER® ET SYSTEM (For use with the ACC and ACC-99D Controllers used with IMMS System Only)</p> <p>The Controller Assembly shall be provided with an ET System Module and Sensors for the purpose of calculating a local EvapoTranspiration factor and downloading to your controller(s). The ET System shall include a pre-mounted ET Module and field mounted ET Sensor assembly. The ET Sensor assembly includes solar radiation, relative humidity, temperature, and rain gauge sensors. The ET Module must be mounted with six (6') feet of an ICC, ACC, or Pro-C controller and the ET Sensor must be mounted with one hundred (100') of the ET Module. If using with the IMMS System, only one ET Sensor is required per system. If using with ICC (non-central application), one ET Sensor is required per controller.</p>
ETSP	<p>HUNTER® ET SYSTEM and POLE ASSEMBLY (For use with the ACC and ACC-99D Controllers used with IMMS System Only)</p> <p>The Controller Assembly shall be provided with an ET System Module and Sensors for the purpose of calculating a local EvapoTranspiration factor and downloading to your controller(s). The ET System shall include a pre-mounted ET Module and field pole-mounted ET Sensor assembly. The ET Sensor assembly includes solar radiation, relative humidity, temperature, and rain gauge sensors. The ET Module must be mounted with six (6') feet of an ICC, ACC, or Pro-C controller and the ET Sensor must be mounted with one hundred (100') of the ET Module. A twelve foot by 2" pole shall be included. If using with the IMMS System, only one ET Sensor is required per system. If using with ICC (non-central application), one ET Sensor is required per controller.</p>
ETSW	<p>HUNTER® ET SYSTEM and WIND SENSOR ASSEMBLY (For use with the ACC and ACC-99D Controllers used with IMMS System Only)</p> <p>The Controller Assembly shall be provided with an ET System Module and Sensors for the purpose of calculating a local EvapoTranspiration factor and downloading to your controller(s). The ET System shall include a pre-mounted ET Module and field mounted ET Sensor and ET Wind assemblies. The ET Sensor assembly includes solar radiation, relative humidity, temperature, and rain gauge sensors, The ET Wind Sensor shall allow for monitoring of wind speed. The ET Module must be mounted with six (6') feet of an ICC, ACC, or Pro-C controller and the ET Sensor and ET Wind Sensor must be mounted with one hundred (100') of the ET Module. If using with the IMMS System, only one ET Sensor is required per system. If using with ICC (non-central application), one ET Sensor is required per controller.</p>
ETSWP	<p>HUNTER® ET SYSTEM and WIND SENSOR and POLE ASSEMBLY (For use with the ACC and ACC-99D Controllers used with IMMS System Only)</p> <p>The Controller Assembly shall be provided with an ET System Module and Sensors for the purpose of calculating a local EvapoTranspiration factor and downloading to your controller(s). The ET System shall include a pre-mounted ET Module and field mounted ET Sensor and ET Wind assemblies. The ET Sensor assembly includes solar radiation, relative humidity, temperature, and rain gauge sensors, The ET Wind Sensor shall allow for monitoring of wind speed. The ET Module must be mounted with six (6') feet of an ICC, ACC, or Pro-C controller and the ET Sensor and ET Wind Sensor must be mounted with one hundred (100') of the ET Module. A twelve foot by 2" pole shall be included. If using with the IMMS System, only one ET Sensor is required per system. If using with ICC (non-central application), one ET Sensor is required per controller.</p>

Controller Assembly Options

SPECIFICATIONS FOR HUNTER INDUSTRIES® CONTROLLER OPTIONS

ET System Options Cont. (For use with the ACC, ACC-99D, ICore, Dual, and Pro-C Controllers)

PART#	DESCRIPTION
SOILCK	<p>HUNTER® SOIL CLIK™ The Controller Assembly shall be provided with a Soil CliK™ Soil Sensor and Module for the purpose of measuring moisture within the root zone where placed and to shut down irrigation when a desired moisture level is reached. The Soil CliK™ shall include a pre-mounted electronic module and soil probe for installation in the field. The soil probe may be installed within 1000' of the controller. Up to 3 Soil CliK™ sensors may be used per ACC or ACC2 series (all) controllers and up to 2 for ICore series controllers (all).</p>

Remote Controls (For use with the ACC, ACC-99D ACC2, ACC2 Decoder, ICore, Dual, and Pro-C Controllers)

PART#	DESCRIPTION
ROAM-XL	<p>HUNTER® ROAM XL REMOTE CONTROL TRANSMITTER, RECEIVER and DOME ANTENNA KIT The Controller Assembly shall be provided with a 27 MHz ROAM XL Remote Control Transmitter and Receiver Kit, Smart Port wiring harness, and 27 MHz external mount antenna for the purpose of activating irrigation valves remotely for a distance of approximately 2 miles from the controller location that is to be activated. Thee ROAM XL shall be capable of supporting up to 240 stations.</p>
ROAM-X	<p>HUNTER® ROAM XL REMOTE CONTROL TRANSMITTER Only The Controller Assembly shall be provided with a 27 MHz ROAM XL Remote Control Transmitter Kit only for the purpose of transmitting to an ROAM XL Receiver to irrigation valves remotely for a distance of approximately 2 miles from the controller location that is to be activated.</p>
ROAM-R	<p>HUNTER® ROAM XL REMOTE CONTROL RECEIVER and DOME ANTENNA Only The Controller Assembly shall be provided with a 27 MHz ROAM XL Remote Control Receiver, Smart Port wiring harness, and Antenna Kit only for the purpose of receiving transmission from an ROAM XL Transmitter to irrigation valves remotely for a distance of approximately 2 miles from the controller location that is to be activated.</p>
ANT-D	<p>REMOTE DOME ANTENNA FOR STAINLESS STEEL ENCLOSURES The Controller Assembly shall be provided with an Antenna capable of being mounted on a VIT® Strong Box™ or similar stainless steel enclosure for use with a ICR Remote for the purposes of transmitting and receiving hand held remote control communication.</p>

ACC Decoder System Options (For ACC-99D and ACC2 Controllers Only)

PART#	DESCRIPTION
ICD-1	<p>HUNTER® SINGLE STATION DECODER W/ SURGE SUPPRESSION The Controller Assembly shall be provided with a Hunter® ICD-1 station decoder for the purpose of solenoid activation of a single valve via two-wire path. The ICD-1 shall be a field-mounted device connected to a two-wire path located no more than 15,000 feet (using twisted pair 12AWG) from an ACC-99D Controller and no more than 300 feet from a valve. When specifying more than one decoder, indicate quantity first. i.e. #2ICD-1.</p>
ICD-2	<p>HUNTER® TWO-STATION DECODER W/ SURGE SUPPRESSION The Controller Assembly shall be provided with a Hunter® ICD-2 Sensor Decoder for the purpose of solenoid activation of up to two valves via two-wire path. The ICD-2 shall be a field-mounted device connected to a two-wire path located no more than 15,000 feet (using twisted pair 12AWG) from an ACC-99D Controller and no more than 300 feet from a valve. When specifying more than one decoder, indicate the quantity first. i.e. #2ICD-2</p>

Controller Assembly Options

SPECIFICATIONS FOR HUNTER INDUSTRIES® CONTROLLER OPTIONS

ACC Decoder System Options Cont. (For ACC-99D and ACC2 Controllers Only)

PART#	DESCRIPTION
ICD-4	<p>HUNTER® FOUR-STATION DECODER W/ SURGE SUPPRESSION</p> <p>The Controller Assembly shall be provided with a Hunter® ICD-4 Sensor Decoder for the purpose of solenoid activation of up to four valves via two-wire path. The ICD-4 shall be a field-mounted device connected to a two-wire path located no more than 15,000 feet (using twisted pair 12AWG) from an ACC-99D Controller and no more than 300 feet from a valve. When specifying more than one decoder, indicate the quantity first. i.e. #2ICD-4.</p>
ICD-6	<p>HUNTER® SIX-STATION DECODER W/ SURGE SUPPRESSION</p> <p>The Controller Assembly shall be provided with a Hunter® ICD-6 Sensor Decoder for the purpose of solenoid activation of up to six valves via two-wire path. The ICD-6 shall be a field-mounted device connected to a two-wire path located no more than 15,000 feet (using twisted pair 12AWG) from an ACC-99D Controller and no more than 300 feet from a valve. When specifying more than one decoder, indicate the quantity first. i.e.#2ICD-6.</p>
ICD-S	<p>HUNTER® SENSOR DECODER W/ SURGE SUPPRESSION</p> <p>The Controller Assembly shall be provided with a Hunter® ICD-S Sensor Decoder for the purpose of monitoring up to two remote sensing devices such as a Mini-Clik®, Rain Clik™, Freeze-Clik, Wind-Clik, Mini Weather Station, and/or Flow Sensor. The ICD-S shall be a field-mounted device connected to a two-wire path located no more than 15,000 feet (using twisted pair 12AWG) from an ACC-99D Controller and no more than 300 feet from a valve or sensor device.</p>

DUAL Decoder System Options (For DUAL Controller Only)

PART#	DESCRIPTION
DL-1	<p>HUNTER® SINGLE STATION DECODER W/ SURGE SUPPRESSION</p> <p>The Controller Assembly shall be provided with a Hunter® DL-1 station decoder for the purpose of solenoid activation of a single valve via two-wire path. The DL-1 shall be a field-mounted device connected to a two-wire path located no more than 7,500 feet (using twisted pair 12AWG) or 5,000 feet (using twisted pair 14AWG) from an DUAL Controller and no more than 100 feet from a valve. When specifying more than one decoder, indicate quantity first. i.e. #2DL-1.</p>
DL-2	<p>HUNTER® TWO-STATION DECODER W/ SURGE SUPPRESSION</p> <p>The Controller Assembly shall be provided with a Hunter® DL-2 station decoder for the purpose of solenoid activation of a single valve via two-wire path. The DL-2 shall be a field-mounted device connected to a two-wire path located no more than 7,500 feet (using twisted pair 12AWG) or 5,000 feet (using twisted pair 14AWG) from an DUAL Controller and no more than 100 feet from a valve. When specifying more than one decoder, indicate quantity first. i.e. #2DL-2.</p>
DL-S	<p>HUNTER® SURGE ARRESTOR</p> <p>The Controller Assembly shall be provided with a Hunter® DL-S surge arrestor for the purpose of protecting the two wire path and controller against electrical surges. The DL-S shall be a field-mounted device connected to a two-wire path located in-line every 12th decoder or 1000 feet minimum. When specifying more than one decoder, indicate the quantity first. i.e. #2DL-S. A Ground Rod Kit # GR-K is necessary for installation with each DL-S and shall be specified separately.</p>

Controller Assembly Options

SPECIFICATIONS FOR HUNTER INDUSTRIES® CONTROLLER OPTIONS

EZ1 Decoder System Options (For ICC2 and HCC Controllers Only)

PART#	DESCRIPTION
EZ1DEC	<p>HUNTER® EZDS SINGLE STATION DECODER W/ SURGE SUPPRESSION FOR ICC2 & HCC ONLY</p> <p>The Controller Assembly shall be provided with a Hunter® EZ1DEC Decoder for the purpose of solenoid activation of a single valve via two-wire path. The EZ1DEC shall be a field-mounted device connected to a two-wire path located no more than 3,650 feet (using twisted pair 12AWG) or 2,292 feet (using twisted pair 14AWG) from an ICC2 or HC Controller only and no more than 100 feet from a valve. When specifying more than one decoder, indicate quantity first. i.e. #2EZ1DEC. The ICC2 or HCC Controller must have an EZDECMOD installed to convert to a two wire decoder controller.</p>
EZDECMOD	<p>HUNTER® EZDS DECODER OUTPUT MODULE FOR ICC2 & HCC ONLY</p> <p>The Controller Assembly shall be provided with a Hunter® EZDECMOD Decoder Output Module for the purpose of converting an ICC2 or HCC Controller to a two wire decoder controller. The EZDECMOD shall be a pre-mounted in the ICC2 or HCC Controller and must operate with EZ1DEC Decoders.</p>
ICD-HP	<p>HAND HELD FIELD DECODER PROGRAMMER</p> <p>The Controller Assembly shall be provided with a Hand Held Decoder Programmer for the purpose of field programming decoders for use with ICD Decoders.</p>

Grounding Equipment

PART#	DESCRIPTION
GR-K	<p>8' GROUND ROD and CLAMP</p> <p>The Controller Assembly shall be provided with an 8' Ground Rod and Clamp for the purpose of providing grounding protection to the controller electrical components. The GR-K shall be necessary for installation on at every 12th decoder along the entire two wire decoder path.</p>
GP8-K	<p>8' GROUND PLATE and 25' of #6 GROUND WIRE</p> <p>The Controller Assembly shall be provided with a 4" x 96" Copper Ground Plate, and 25' of #6 ground wire for the purpose of providing grounding protection to the controller electrical components. The #GP8-K Kit shall be used primarily with an 8' Ground Rod per National Electric Code requirements for grounding. Includes 2- 50 lb. bags of PowerFill™ or PowerSet® backfill material for ground plate installation.</p>
GP3-K	<p>3' GROUND PLATE and 10' of #6 GROUND WIRE</p> <p>The Controller Assembly shall be provided with a 4" x 36" Copper Ground Plate, and 10' of #6 ground wire for the purpose of providing grounding protection to the controller electrical components. The #GP3-K Kit shall be used primarily on two wire decoder system path grounding along with the specific manufacturer's surge suppression device per each specific manufacturer's grounding requirements. Includes 1- 50 lb. bag of PowerFill™ or PowerSet® backfill material for ground plate installation.</p>