

# CONTROLLER ASSEMBLIES

## RAIN BIRD® ESP 2 WIRE SATELLITE ASSEMBLY

The Imperial Controller Assembly (ICA) is built with the highest quality standards using UL Listed stainless steel enclosures to provide simple and efficient installations in the field. All Assemblies include a pre-installed controller(s), 120VAC receptacles, terminal boards for wiring and mounting instructions. The Imperial Assemblies wiring harness is wired through the rear giving it a clean look.

As pre-assembled and pre-wired for convenience, the installer is responsible for setting the enclosure base (or Mounting Pad), installing conduits, wiring the 120VAC electrical to the receptacle, and connecting the valve wires to the terminal board. Optional flow, rain, and other sensing devices may also be connected to the terminal board.

Mounting bases (#MP) are ideal way to further reduce installation time by eliminating the need to a pour concrete base. All Imperial Assemblies include a limited 5 year warranty.



### SPECIFICATIONS

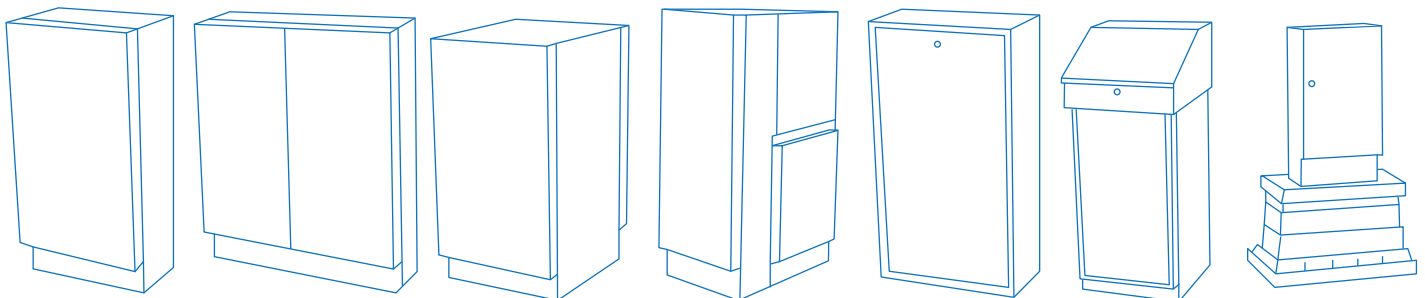
The Imperial Controller Assembly shall include a UL Listed stainless steel vandal resistant enclosure with a removable backboard, 120VAC outlet receptacle, and terminal wire board with Remote Receiver Connector (RRC).

The electrical junction box shall include an on/off power switch and duplex receptacle with ground fault interrupt circuit.

The terminal wiring board shall be pre-mounted and wired through the rear side of the backboard and shall include screw-less cage-type terminal block connections including up to two slots per terminal and may accept 12 or 14 gauge AWG wires. The terminal board shall also include a reset-able fuse and sensor bypass switch.

The terminal board(s) shall have a maximum of forty eight (48) valve station locations including additional terminals for up to four (4) common wires, master valve(s), two (2) rain sensor terminals, pump start, flow sensor, and two-wire communication cables.

### STRONG BOX ENCLOSURE TYPES



FRONT ENTRY

SIDE BY SIDE

DOUBLE WIDE

METER CONTROLLER

LITE CONTROLLER

TOP ENTRY

MOUNTING PAD

## RAIN BIRD® ESP 2 WIRE SATELLITE ASSEMBLY PART NUMBERING GUIDE

### Imperial Controller Assembly Part Number

### ISAX-RB1-XX+XX/Options

#### ISAX- Specify Strong Box Stainless Steel Enclosure Type

#### FRONT ENTRY

1=	18"W x 36"H x 12"D	SB18-SS PEDESTAL
2=	18"W x 36"H x 24"D	SB18D-SS PEDESTAL
3=	24"W x 36"H x 12"D	SB24-SS PEDESTAL
4=	24"W x 36"H x 24"D	SB24D-SS PEDESTAL
8=	36"W x 36"H x 12"D	SB36-SS PEDESTAL

#### ELECTRIC METER/ CONTROLLER ENCLOSURE

5A=	18"W x 52"H x 20"D + 18"W x 52"H	SB-1852SS PEDESTAL	(100/100 AMP – 1 PH)
5C=	18"W x 52"H x 20"D + 18"W x 52"H	SB-1852SS PEDESTAL	(100/200 AMP – 1 PH)
5D=	18"W x 52"H x 20"D + 18"W x 52"H	SB-1852SS PEDESTAL	(100/100 AMP – 3 PH)
5E=	18"W x 52"H x 20"D + 18"W x 52"H	SB-1852SS PEDESTAL	(200/200 AMP – 3 PH)

#### TOP ENTRY ENCLOSURES

6=	16"W x 38"H x 15.5"D	SB-16SS PEDESTAL
7=	24"W x 38"H x 17"D	SB-22SS PEDESTAL

#### WALL MOUNT ENCLOSURES AND BACKBOARDS

10=	16"W x 32"H	BACKBOARD – WALL MOUNT
11=	22"W x 32"H	BACKBOARD – WALL MOUNT
16=	18"W x 36"H x 12"D	SB-18SSW WALL MOUNT ENCLOSURE
17=	24"W x 36"H x 12"D	SB-24SSW WALL MOUNT ENCLOSURE

#### LITE DUTY ENCLOSURES

12=	16.75"W x 30"H x 8.25"D	LD-16SW WALL MOUNT
13=	16.75"W x 30"H x 8.25"D	LD-16SSW PEDESTAL
15=	17 1/2"W x 34 1/2"H x 11 1/2"D	LD-16 TOP ENTRY PEDESTAL

#### RB2-XX+XX /OPTIONS

RB1	<b>SATELLITE MANUFACTURER</b> RB = Rain Bird
RB1	<b>SATELLITE CONTROLLER TYPE/COMMUNICATION</b> 1 = ESP 2-WIRE SATELLITE 2 = ESP LINK RADIO SATELLITE 3 = ESP SITE SATELLITE
XX	<b>SATELLITE CONTROLLER #1 STATION QUANTITY (40)</b>
+XX	<b>SATELLITE CONTROLLER #2 STATION QUANTITY (40) OR CLUSTER CONTROL UNIT (if applicable)</b> CCU: Channels or CCU28 = 28 Channels
/OPTIONS	<b>SATELLITE OPTIONS</b> (See Options Section for available options)

# CONTROLLER ASSEMBLIES

## RAIN BIRD® ESP LINK RADIO SATELLITE ASSEMBLY

The Imperial Controller Assembly (ICA) is built with the highest quality standards using UL Listed stainless steel enclosures to provide simple and efficient installations in the field. All Assemblies include a pre-installed controller(s), 120VAC receptacles, terminal boards for wiring and mounting instructions. The Imperial Assemblies wiring harness is wired through the rear giving it a clean look.

As pre-assembled and pre-wired for convenience, the installer is responsible for setting the enclosure base (or Mounting Pad), installing conduits, wiring the 120VAC electrical to the receptacle, and connecting the valve wires to the terminal board. Optional flow, rain, and other sensing devices may also be connected to the terminal board.

Mounting bases (#MP) are ideal way to further reduce installation time by eliminating the need to a pour concrete base. All Imperial Assemblies include a limited 5 year warranty.



### SPECIFICATIONS

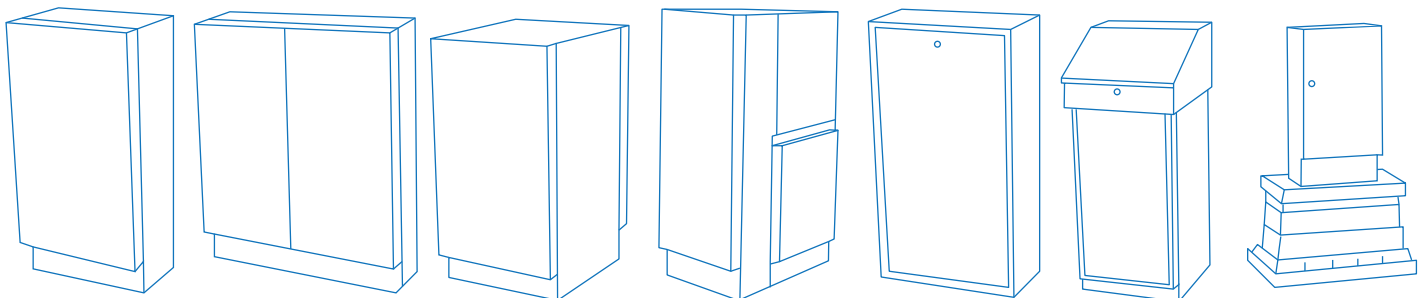
The Imperial Controller Assembly shall include a UL Listed stainless steel vandal resistant enclosure with a removable backboard, 120VAC outlet receptacle, and terminal wire board with Remote Receiver Connector (RRC).

The electrical junction box shall include an on/off power switch and duplex receptacle with ground fault interrupt circuit.

The terminal wiring board shall be pre-mounted and wired through the rear side of the backboard and shall include screw-less cage-type terminal block connections including up to two slots per terminal and may accept 12 or 14 gauge AWG wires. The terminal board shall also include a reset-able fuse and sensor bypass switch.

The terminal board(s) shall have a maximum of forty eight (48) valve station locations including additional terminals for up to four (4) common wires, master valve(s), two (2) rain sensor terminals, pump start, flow sensor, and two-wire communication cables.

### STRONG BOX ENCLOSURE TYPES



FRONT ENTRY

SIDE BY SIDE

DOUBLE WIDE

METER CONTROLLER

LITE CONTROLLER

TOP ENTRY

MOUNTING PAD

## RAIN BIRD® ESP LINK RADIO SATELLITE ASSEMBLY PART NUMBERING GUIDE

### Imperial Controller Assembly Part Number

### ISAX-RB1-XX+XX/Options

#### ISAX- Specify Strong Box Stainless Steel Enclosure Type

#### FRONT ENTRY

1=	18"W x 36"H x 12"D	SB18-SS PEDESTAL
2=	18"W x 36"H x 24"D	SB18D-SS PEDESTAL
3=	24"W x 36"H x 12"D	SB24-SS PEDESTAL
4=	24"W x 36"H x 24"D	SB24D-SS PEDESTAL
8=	36"W x 36"H x 12"D	SB36-SS PEDESTAL

#### ELECTRIC METER/ CONTROLLER ENCLOSURE

5A=	18"W x 52"H x 20"D + 18"W x 52"H	SB-1852SS PEDESTAL	(100/100 AMP – 1 PH)
5C=	18"W x 52"H x 20"D + 18"W x 52"H	SB-1852SS PEDESTAL	(100/200 AMP – 1 PH)
5D=	18"W x 52"H x 20"D + 18"W x 52"H	SB-1852SS PEDESTAL	(100/100 AMP – 3 PH)
5E=	18"W x 52"H x 20"D + 18"W x 52"H	SB-1852SS PEDESTAL	(200/200 AMP – 3 PH)

#### TOP ENTRY ENCLOSURES

6=	16"W x 38"H x 15.5"D	SB-16SS PEDESTAL
7=	24"W x 38"H x 17"D	SB-22SS PEDESTAL

#### WALL MOUNT ENCLOSURES AND BACKBOARDS

10=	16"W x 32"H	BACKBOARD – WALL MOUNT
11=	22"W x 32"H	BACKBOARD – WALL MOUNT
16=	18"W x 36"H x 12"D	SB-18SSW WALL MOUNT ENCLOSURE
17=	24"W x 36"H x 12"D	SB-24SSW WALL MOUNT ENCLOSURE

#### LITE DUTY ENCLOSURES

12=	16.75"W x 30"H x 8.25"D	LD-16SW WALL MOUNT
13=	16.75"W x 30"H x 8.25"D	LD-16SSW PEDESTAL
15=	17 1/2"W x 34 1/2"H x 11 1/2"D	LD-16 TOP ENTRY PEDESTAL

#### RB2-XX+XX /OPTIONS

RB1	<b>SATELLITE MANUFACTURER</b> RB = Rain Bird
RB1	<b>SATELLITE CONTROLLER TYPE/COMMUNICATION</b> 1 = ESP 2-WIRE SATELLITE 2 = ESP LINK RADIO SATELLITE 3 = ESP SITE SATELLITE
XX	<b>SATELLITE CONTROLLER #1 STATION QUANTITY (40)</b>
+XX	<b>SATELLITE CONTROLLER #2 STATION QUANTITY (40) OR CLUSTER CONTROL UNIT (if applicable)</b> CCU: Channels or CCU28 = 28 Channels
/OPTIONS	<b>SATELLITE OPTIONS</b> (See Options Section for available options)

# CONTROLLER ASSEMBLIES

## RAIN BIRD® ESP SITE SATELLITE ASSEMBLY

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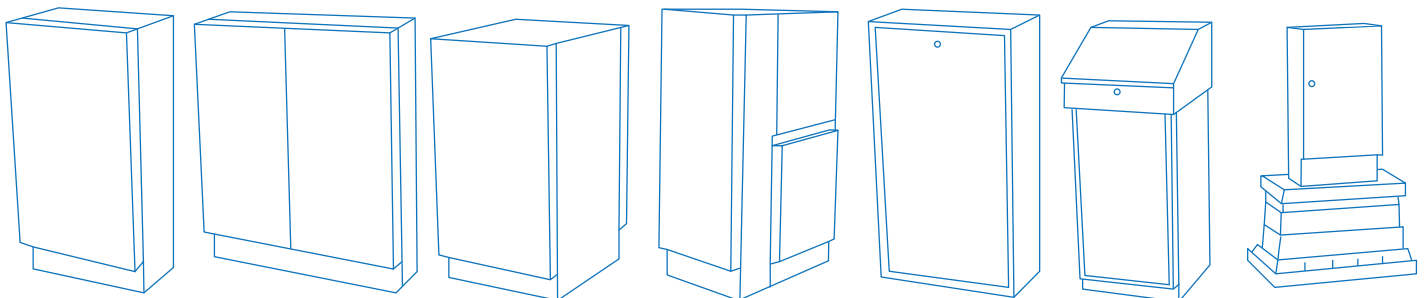
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### STRONG BOX ENCLOSURE TYPES



FRONT ENTRY

SIDE BY SIDE

DOUBLE WIDE

METER CONTROLLER

LITE CONTROLLER

TOP ENTRY

MOUNTING PAD

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3=	24"W x 36"H x 12"D	SB24-SS PEDESTAL
4=	24"W x 36"H x 24"D	SB24D-SS PEDESTAL
8=	36"W x 36"H x 12"D	SB36-SS PEDESTAL

#### ELECTRIC METER/ CONTROLLER ENCLOSURE

5A=	18"W x 52"H x 20"D + 18"W x 52"H	SB-1852SS PEDESTAL	(100/100 AMP – 1 PH)
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5D=	18"W x 52"H x 20"D + 18"W x 52"H	SB-1852SS PEDESTAL	(100/100 AMP – 3 PH)
5E=	18"W x 52"H x 20"D + 18"W x 52"H	SB-1852SS PEDESTAL	(200/200 AMP – 3 PH)

#### TOP ENTRY ENCLOSURES

6=	16"W x 38"H x 15.5"D	SB-16SS PEDESTAL
7=	24"W x 38"H x 17"D	SB-22SS PEDESTAL

#### WALL MOUNT ENCLOSURES AND BACKBOARDS

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16=	18"W x 36"H x 12"D	SB-18SSW WALL MOUNT ENCLOSURE
17=	24"W x 36"H x 12"D	SB-24SSW WALL MOUNT ENCLOSURE

#### LITE DUTY ENCLOSURES

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RB1	<b>SATELLITE CONTROLLER TYPE/COMMUNICATION</b> 1 = ESP 2-WIRE SATELLITE 2 = ESP LINK RADIO SATELLITE 3 = ESP SITE SATELLITE
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/OPTIONS	<b>SATELLITE OPTIONS</b> (See Options Section for available options)