

Smart Controller Installation Checklist

WeatherTrak (Smart Controller Option A) – New Project

Procedures for Final Inspection of Church Installations:

The following checklist details all items for WeatherTrak ET Pro3 and LC system installation that are required by WeatherTrak by Installer prior to final inspection by WeatherTrak Technician. This checklist is for smart controller verification purposes only and does not cover all requirements given in Project Specifications.

1. Pre-Installation:

- ☐ Complete WeatherTRAK Site Programming worksheet for each zone (plant, soil, slope etc).

2. Installation:

- ☐ Install WeatherTRAK Controller and connect valve wires.
- ☐ Connect power.
- ☐ Ground Controller in accordance with Specification Section 32 8466 'Underground Sprinklers: Controllers'.
- ☐ Wire flow and rain sensors.

3. Flow Sensors (if Used):

- ☐ Attach Flow Sensor Wires.
- ☐ Flow Menu - Turn Flow to ON.
- ☐ Flow Menu - Set appropriate K and Offset for flow sensor size and model.
- ☐ Flow Menu - Run 'Learn Flow' cycle to establish high flow settings.
- ☐ Set Up Menu - Set MasterValve to 'Normally Open' or 'Normally Closed'.

4. Rain Sensor (If Used):

- ☐ Attach Rain Sensor wires to RS port on Controller.
- ☐ Run standard sensor test per sensor manufacturer.

5. Activate:

- ☐ Call WeatherTRAK customer service (800) 362-8774 to activate Controller.
- ☐ Provide: serial number, address, FM Group, FM Office Address, Site Name and Property #.
- ☐ When setting up controllers on-line, use proper naming conventions. Controller names shall conform to following format: two spaces for state designation, up to nine spaces for FM Group, three spaces for building number and letter (if there are multiple controllers), and seven spaces for property number. For example, a controller for building 29 recreation property located in Murray, UT FM Group would be as follows: UT-Murray-29R-5363977. Coordinate through FM to match with existing controller designation. Site Names shall conform to the following format: Church Department, State, street number and name followed by City; e.g. MFD-UT-6250 South 2200 West-Taylorsville. Use no more than 40 characters. Account names for Meetinghouse Facilities Department properties will be labeled as "Church MFD", given a state and FM reference; e.g. Church MFD UT Murray. Contact Church HQ for non-MFD naming.

6. Program (program at Controller or via web at www.weathertrak.net):

- ☐ Set Up Menu - Set Up current date time and general information.
- ☐ Days and Times - Set up day pattern and start times.
- ☐ Stations Menu - Program each station in Auto Mode using Station Worksheet data.
- ☐ Stations Menu - Program each station In User Mode (No ET) for Plant Establishment.
- ☐ Leave Program Mode in User Mode - Auto Mode settings are saved for future use.

7. Final Check:

- ☐ Preview Menu - Review each station's program in Preview screen.
- ☐ Services Menu - Run Valve Test to check for loose wiring - correct as needed.
- ☐ Manual Menu - Run 1 minute test cycle for all zones.
- ☐ Leave Station worksheet inside of controller.

I hereby certify that Smart Controller Installation Checklist has been completed and all deficiencies have been corrected.

Signature: _____ Printed Signature: _____

Date: _____

Smart Controller Installation Checklist

WeatherTrak (Smart Controller Option A) – Existing Project

Procedures for Final Inspection of Church Installations:

The following checklist details all items for WeatherTrak ET Pro3 and LC system installation that are required by WeatherTrak by Installer prior to final inspection by WeatherTrak Technician. This checklist is for smart controller verification purposes only and does not cover all requirements given in Project Specifications.

1. Pre-Installation:

- ☐ Run Manual Cycle and Ohm test to verify system wiring before new controller install.
- ☐ Note broken wires or bad stations.
- ☐ Complete WeatherTRAK Site Programming worksheet for each zone (plant, soil, slope etc).

2. Installation:

- ☐ Install WeatherTRAK Controller and connect valve wires.
- ☐ Connect power.
- ☐ Ground Controller in accordance with Specification Section 32 8466 'Underground Sprinklers: Controllers'.
- ☐ Wire flow and rain sensors.

3. Flow Sensors (if Used):

- ☐ Attach Flow Sensor Wires.
- ☐ Flow Menu - Turn Flow to ON.
- ☐ Flow Menu - Set appropriate K and Offset for flow sensor size and model.
- ☐ Flow Menu - Run 'Learn Flow' cycle to establish high flow settings.
- ☐ Set Up Menu - Set MasterValve to 'Normally Open' or 'Normally Closed'.

4. Rain Sensor (If Used):

- ☐ Attach Rain Sensor wires to RS port on Controller.
- ☐ Run standard sensor test per sensor manufacturer.

5. Activate:

- ☐ Call WeatherTRAK customer service (800) 362-8774 to activate Controller.
- ☐ Provide: serial number, address, FM Group, FM Office Address, Site Name and Property #.
- ☐ When setting up controllers on-line, use proper naming conventions. Controller names shall conform to following format: two spaces for state designation, up to nine spaces for FM Group, three spaces for building number and letter (if there are multiple controllers), and seven spaces for property number. For example, a controller for building 29 recreation property located in Murray, UT FM Group would be as follows: UT-Murray-29R-5363977. Coordinate through FM to match with existing controller designation. Site Names shall conform to the following format: Church Department, State, street number and name followed by City; e.g. MFD-UT-6250 South 2200 West-Taylorsville. Use no more than 40 characters. Account names for Meetinghouse Facilities Department properties will be labeled as "Church MFD", given a state and FM reference; e.g. Church MFD UT Murray. Contact Church HQ for non-MFD naming.

6. Program (program at Controller or via web at www.weathertrak.net):

- ☐ Set Up Menu - Set Up current date time and general information.
- ☐ Days and Times - Set up day pattern and start times.
- ☐ Stations Menu - Program each station in Auto Mode using Station Worksheet data.
- ☐ Stations Menu - Program each station In User Mode (No ET) for Establishment.

7. Final Check:

- ☐ Preview Menu - Review each station's program in Preview screen.
- ☐ Services Menu - Run Valve Test to check for loose wiring - correct as needed.
- ☐ Manual Menu - Run 1 minute test cycle for all zones.
- ☐ Leave Station worksheet inside of controller.

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Date: _____

Smart Controller Installation Checklist

RAIN MASTER – Eagle Plus (Smart Controller Option B)

Procedures for Final Inspection of Church Installations:

The following checklist details all items for Rain Master iCentral system installation that are required by Rain Master by Installer prior to final inspection by Authorized Rain Master Representative. This checklist is for smart controller verification purposes only and does not cover all requirements given in Project Specifications.

1. Controller Installation:

- ☐ Confirm power to irrigation controller is 120VAC\1 PH.
- ☐ Contact Architect (new projects) or Owner's Representative (existing projects) to locate electrical service.
- ☐ Call Local Utilities three (3) days prior to excavating or pulling PE-54 wire.
- ☐ Label existing valve wires.
- ☐ Separate combined valve wires sharing one station.
- ☐ Note existing programming.
- ☐ Mount Rain Master Eagle Plus according to manufacture specifications included with product.
- ☐ Controller must be level.
- ☐ All valve and electrical conduit must be secure, level and cleanly installed.
- ☐ Install **8 feet (2.45 m)** ground rod with No.8 bare copper wire connected to ground lug in Controller.
- ☐ Ground rod must be housed in **6 inch (150 mm)** round valve box.

2. Hydrometer & Flow Sensor Wire Installation:

- ☐ Paige PE-54 shall be used for operating the Hydrometer.
- ☐ Pull or trench PE-54 wire to Point of Connection POC.
- ☐ Bore under sidewalks or driveways as necessary. Sleeve must be used.
- ☐ All connections shall be housed in **10 foot (3.05 m)** round valve box.
- ☐ All wire connections must be housed in approved waterproof direct bury splice kits.
- ☐ Install **3/4 inch (19 mm)** quick coupler and isolation ball valve downstream of new meter.
- ☐ Hydrometer, quick coupler and ball valve must be housed in valve boxes.
- ☐ All sod must be replaced to original site conditions.

3. Controller Set-Up:

- ☐ Set local time and date.
- ☐ Turn communications one.
- ☐ Note Controller serial number and iCard serial number and contact local Irritrol/Rain Master District Sales Manager.
- ☐ Existing Projects only: Program Controller using programming that was in original irrigation Controller.
- ☐ Set Hydrometer to Normally Open under SETUP function.
- ☐ Activate flow under SETUP, set flow sensor to OTHER, k = 1 & OFFSET = 1.
- ☐ Confirm Controller is reading flow - turn flow function off.
- ☐ Site Manager will set up Eagle Plus Controller: Flow, ET, Notifications, E-mail addresses.
- ☐ Test each zone and confirm system is 100 percent operational.

4. Final Check:

- ☐ Train Owner's Representative on controller operation and function.
- ☐ Set up new iCentral account.
- ☐ Train Owner's Representative on iCentral software at www.rainmaster.com.
- ☐ Note site conditions, plant type, slopes, and soil conditions.
- ☐ Train Owner's Representative on ET and its function and operation related to iCentral programming.
- ☐ Turn on Flow, set mainline limit, unscheduled flow limit and set up Learn Flow for site.
- ☐ Follow up training online or at next site visit.

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Date: _____