



Weather Reach Application Notes

Rain Master Evolution

The WR-7 Weather Reach Receiver can provide Rain Master Evolution Central Control system with ET and rainfall values from the Weather Reach System weather station through a DX2 satellite controller. Evolution Central System can use the information throughout the system. (Note: the DX2 in a stand-alone application is not an ET-based controller and does not use the ET and rain pulse directly.)

The WR-7 ET and rain output is a momentary switch closure, typically set to .01” per closure. Outputs are based on information from regional weather station broadcast via the Weather Reach System. The information is updated with each broadcast. The local Weather Reach Service Provider sets the update frequency, which can be as often as hourly to once per day.

Hardware Requirements

One WR-7 Weather Reach Receiver provides inputs to one Rain Master DX-SEN Sensor Terminal board installed in an Evolution DX2 Controller.

Wiring

ET - Use a 2-conductor wire to connect the WR-7 “ET Pulse” terminals to the Rain Master DX-SEN Sensor Terminal board input terminal 2 + (plus) & - (minus).

Rain – (if no on-site rain collector is available) - Use a 2-conductor wire to connect the WR-7 “Rain Pulse” terminals to the Rain Master DX-SEN Sensor Terminal board input terminal 3 + (plus) & - (minus).

Evolution DX2 Controller Program Settings

ET & Rain - See chapter 9 – Central Control, in the Rain Master Evolution DX2 Controller manual.

WR-7 System Settings

Version 1

Rain Source = Broadcast
ET Enable Mode = Trigger
Pulse Per Minute = 10
Units per Pulse = .01
ET Pulse Duration = 1.0 seconds
Rain Pulse Duration = .2 seconds

Version 2

Rain Source = Broadcast
Pulse Per Minute = 10
ET Pulse Duration = 1.0 seconds
Rain Pulse Duration = .2 seconds
ET Output = ET Pulse