



# Weather Reach Application Notes

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## Signature Control Systems Controllers

The WR-7 Weather Reach Receiver can provide Signature Control Systems Aurora, Constellation and Galaxy controllers with ET and rainfall values from the Weather Reach system weather station. When connected to the Aurora or Constellation Central Control System the information can be used throughout the network. 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 Aurora, Constellation or Galaxy controller on the Sensor board.

### Wiring

**ET** - Use a 2-conductor wire to connect the WR-7 "ET Pulse" terminals to the controller's Sensor Terminal Card input "Sensor Ground" and "Sensor 1".

**Rain (if no on-site rain collector is available)** - Use a 2-conductor wire to connect the WR-7 "Rain Pulse" terminals to the controller's Sensor Terminal Card input "Sensor Ground" and "Sensor 2".

### Signature Controller Program Settings

Set Sensor 1 as an "ET Gauge"  
Set Sensor 2 as a "Rain Bucket"  
Set Units to .01" per pulse.

### WR-7 System Settings

#### Version 1

Rain Source = Broadcast  
ET Enable Mode = Trigger  
Pulse Per Minute = 10  
Units per Pulse = .01  
ET Pulse Duration = 2.0 seconds  
Rain Pulse Duration = .2 seconds  
Weather Interrupt = Wind and Temperature as needed

#### Version 2

Rain Source = Broadcast  
Pulse Per Minute = 10  
ET Pulse Duration = 2.0 seconds  
Rain Pulse Duration = .2 seconds  
ET Output = ET Pulse  
Weather Interrupt = Wind and Temperature as needed