

# RAIN-CLIK®

Sensor: Rain, Freeze

To prevent water waste, built-in Quick Response® Technology instantly shuts down irrigation as soon as it starts raining.

## KEY BENEFITS

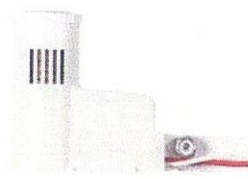
- Quick Response Technology triggers instant rain shutoff
- Freeze sensing model halts system operation at 37°F
- Wireless sensor kit simplifies installation
- Maintenance-free design with integrated battery for wireless models
- Adjustable vent ring allows for shorter or longer reset period
- Includes gutter bracket and wall mount with wireless models
- Compatible with most normally open or normally closed irrigation controllers

## OPERATING SPECIFICATIONS

- Quick Response Technology:
  - Time to turn off irrigation system: approximately 2 to 5 minutes for Quick Response
  - Time to reset Quick Response: approximately 4 hours under dry, sunny conditions
  - Time to reset when fully wet: approximately 3 days under dry, sunny conditions
- All models switch rating (24 VAC): 3 A
- Wired models include 25' of 20 AWG sheathed, UL-approved wire
- Wireless model operating frequency: 433 MHz
- Wireless model range is 800' line of sight from sensor to receiver
- Multiple wireless receivers can be operated from a single wireless sensor
- Approvals: UL, cUL, FCC, CE, UKCA, RCM
- Warranty period: 5 years

## USER-INSTALLED OPTIONS

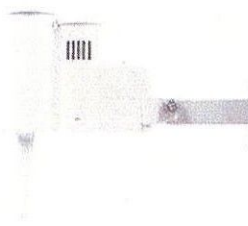
- Optional Gutter Mount for wired models (included with WR-CLIK)
- Vandal-resistant Wireless Sensor Guard for flat surface- or pole-mounting (order sensor separately)
- Vandal-resistant Wireless Receiver Guard for pedestal mounting (order receiver separately)



**Wired Rain-Clik Sensor**  
(with mounting arm)  
Height: 2½"  
Length: 7"  
Width: 1"



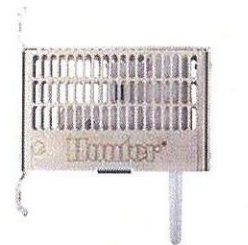
**Sensor Gutter Mount**  
optional gutter mount  
Height: ½"  
Length: 3"  
Width: 1¼"



**Wireless Rain-Clik Sensor**  
(with mounting arm)  
Height: 3"  
Length: 8"  
Width: 1"



**Wireless Receiver**  
(with wall-mounting hardware)  
Height: 3¼"  
Length: 4"  
Width: 1½"



**Wireless Sensor Guard**  
(with mounting hardware)  
Height: 2¾"  
Length: 3¾"  
Width: 1¼"



**Wireless Receiver Guard**  
(with mounting hardware)  
Height: 5"  
Length: 4"  
Width: 1¼"

### RAIN-CLIK

Model	Description
RAIN-CLIK	Wired Rain-Clik Sensor
RAIN-CLIK-NO	Wired Rain-Clik Sensor, normally open switch
RFC	Wired Rain/Freeze-Clik Sensor
WR-CLIK	Wireless Rain/Freeze-Clik Sensor, Receiver, and Gutter Mount
WS-GUARD	Vandal-resistant wireless sensor guard for surface- or pole-mounting
WR-GUARD	Vandal-resistant wireless receiver guard for pedestal mounting

Compatible with:



**Waterproof Wire Connector**  
Page 125

# MINI-CLI<sup>®</sup>

*This sensor halts scheduled irrigation when it detects a preset level of rainfall to prevent water waste.*

## KEY BENEFITS

- Shuts off irrigation automatically when the sensor detects rainfall from 1/8" to 3/4"
- Debris-tolerant for reliable operation and no unnecessary shutdowns
- Wireless sensor kit simplifies installation\*
- Quick Response<sup>®</sup> Technology triggers faster system shutdown for plant protection\*
- Built-in freeze sensing halts system operation at 37°F to protect plants and keep roads and walkways ice-free\*
- Maintenance-free design with integrated battery for wireless models
- Compatible with most normally open or normally closed irrigation controllers

## OPERATING SPECIFICATIONS

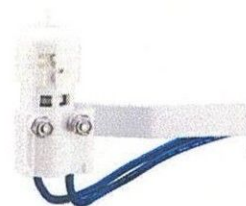
- Quick Response Technology\* (when enabled):
  - Time to turn off irrigation system: approximately 2 to 5 minutes
  - Time to reset: approximately 4 hours under dry, sunny conditions
  - Time to reset when fully wet: approximately 3 days under dry, sunny conditions
- All models switch rating (24 VAC): 3 A
- Wired models include 25' of 20 AWG sheathed, UL-approved wire
- Wireless model operating frequency: 433 MHz
- Wireless model range is 800' line of sight from sensor to receiver
- Multiple wireless receivers can be operated from a single wireless sensor
- Approvals: UL, cUL, FCC, CE, UKCA, RCM
- Warranty period: 5 years

## USER-INSTALLED OPTIONS

- Optional Gutter Mount for wired models (included with WM-CLI<sup>®</sup>)
- Vandal-resistant Wireless Sensor Guard for flat surfaces or pole mounting (order sensor separately)
- Vandal-resistant Wireless Receiver Guard for pedestal mounting (order receiver separately)

\*Wireless Mini-Click Sensor only

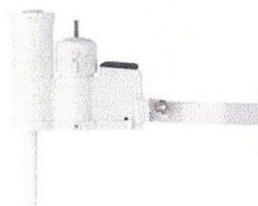
Sensor: Rain, Freeze



**Wired Mini-Click Sensor**  
(with mounting arm)  
Height: 2"  
Length: 6"  
Width: 1"



**Wired Mini-Click Sensor**  
(with stainless steel enclosure)  
Height: 5 1/2"  
Length: 3"  
Width: 4"



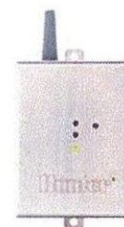
**Wireless Mini-Click Sensor**  
(with mounting arm)  
Height: 3"  
Length: 8"  
Width: 1"



**Wireless Receiver**  
(with wall-mounting hardware)  
Height: 4"  
Length: 4"  
Width: 1 1/2"



**Wireless Sensor Guard**  
(with mounting hardware)  
Height: 2 3/4"  
Length: 3 3/4"  
Width: 1 1/4"



**Wireless Receiver Guard**  
(with mounting hardware)  
Height: 5"  
Length: 4"  
Width: 1 1/4"

Compatible with:



**Waterproof Wire Connector**  
Page 125

MINI-CLI <sup>®</sup>	
Model	Description
MINI-CLI <sup>®</sup>	Wired Mini-Click Sensor
MINI-CLI <sup>®</sup> -NO	Wired Mini-Click Sensor, normally open switch
MINI-CLI <sup>®</sup> -C	Wired Mini-Click Sensor, conduit mount
SG-MC	Wired Mini-Click Sensor in a stainless steel sensor enclosure
WM-CLI <sup>®</sup>	Wireless Mini-Click Sensor, Receiver, and Gutter Mount
WS-GUARD	Vandal-resistant Wireless Sensor Guard for flat surface or pole mounting
WR-GUARD	Vandal-resistant Wireless Receiver Guard for pedestal mounting



# SOLAR SYNC®

This sensor automatically adjusts controller run times daily based on local climate conditions to reduce water usage and improve plant health.

## KEY BENEFITS

- Automatically adjusts irrigation run times based on weather conditions using on-site solar radiation and air temperature
- Quick Response® Technology triggers instant rain shutoff
- Freeze sensing halts system operation at 37°F
- Wireless sensor kit simplifies installation
- Maintenance-free design with integrated battery for wireless models
- Adjustable vent ring allows for shorter or longer reset period
- Use with X-Core®, Pro-C®, ICC2, ACC2, and legacy ACC and I-Core® Controllers
- Manage remotely with Centralus™ Software for Pro-C, ICC2, and ACC2 installations

## OPERATING SPECIFICATIONS

- Solar Sync Technology:
  - Adjusts run times daily 3 minutes before midnight using the last 3 days of ET (evapotranspiration) data
  - See calibration table on **page 205**
- Quick Response Technology:
  - Time to turn off irrigation system: approximately 2 to 5 minutes for Quick Response
  - Time to reset Quick Response: approximately 4 hours under dry, sunny conditions
  - Time to reset when fully wet: approximately 3 days under dry, sunny conditions
- All models switch rating (24 VAC): 3 A
- Wired models include 25' of 20 AWG sheathed, UL-approved wire
- Wireless model operating frequency: 433 MHz
- Wireless model range is 800' line of sight from sensor to receiver
- Multiple wireless receivers can be operated from a single wireless sensor
- Approvals: UL, cUL, FCC, CE, UKCA, RCM
- Warranty period: 5 years

## USER-INSTALLED OPTIONS

- Vandal-resistant Wireless Sensor Guard for flat surface- or pole-mounting (order sensor separately)
- Vandal-resistant Wireless Receiver Guard for pedestal mounting (order receiver separately)

### SOLAR SYNC

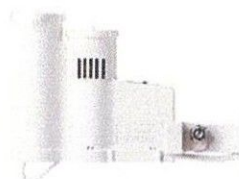
Model	Description
SOLAR-SYNC-SEN	Wired Solar Sync Sensor and Gutter Mount
WSS-SEN	Wireless Solar Sync Sensor, Receiver, and Gutter Mount
WS-GUARD	Vandal-resistant Wireless Sensor Guard for flat surface- or pole-mounting
WR-GUARD	Vandal-resistant Wireless Receiver Guard for pedestal mounting



#### EPA WaterSense® Approved

Recognized as a responsible water-saving tool by the U.S. Environmental Protection Agency

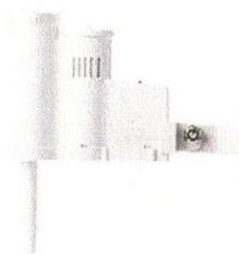
Sensor: **ET, Rain, Freeze**



#### Wired Solar Sync Sensor

(with mounting arm)

Height: 3"  
Length: 8½"  
Width: 1"



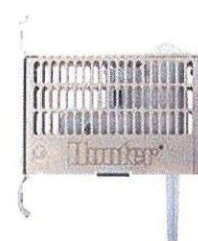
#### Wireless Solar Sync Sensor

Height: 4½"  
Length: 8½"  
Width: 1"



#### Wireless Solar Sync Receiver

(with wall-mounting kit)  
Height: 5½"  
Length: 1½"  
Width: 1½"



#### Wireless Sensor Guard

(with mounting hardware)  
Height: 2¾"  
Length: 3¾"  
Width: 1¼"



#### Wireless Receiver Guard

(with mounting hardware)  
Height: 5"  
Length: 4"  
Width: 1¼"

Compatible with:



Centralus  
Software  
Page 104



Waterproof Wire  
Connector  
Page 125

# SOIL-CLI<sup>®</sup>

Sensor: **Soil Moisture**

*This sensor prevents water waste by measuring soil moisture and shutting off irrigation when a preset level is reached.*

## KEY BENEFITS

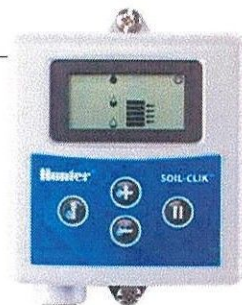
- View current soil moisture level and status at a glance
- One-touch override allows soil moisture bypass for special conditions
- Low-voltage outdoor enclosure powered by host controller
- Connect to sensor inputs, or use to interrupt common wires in virtually any 24 VAC irrigation system
- Use with Solar Sync<sup>®</sup> Sensor for maximum water savings; see page 136

## OPERATING SPECIFICATIONS

- Switch rating (24 VAC): 5 A
- Input power (24 VAC): 100 mA
- Output power: Normally closed, dry-contact closure
- 6' maximum distance from Soil-Clik module to controller
- 1,000' maximum distance from Soil-Clik module to sensor probe for AC installations
- 100' maximum distance for NODE-BT installations
- Sensor probe includes 30" of direct-burial wire
- Approvals: UL, cUL, FCC, CE, UKCA, RCM
- Warranty period: 5 years

### Soil-Clik Module

Height: 4½"  
Length: 3½"  
Width: 1¼"



### Soil-Clik Probe

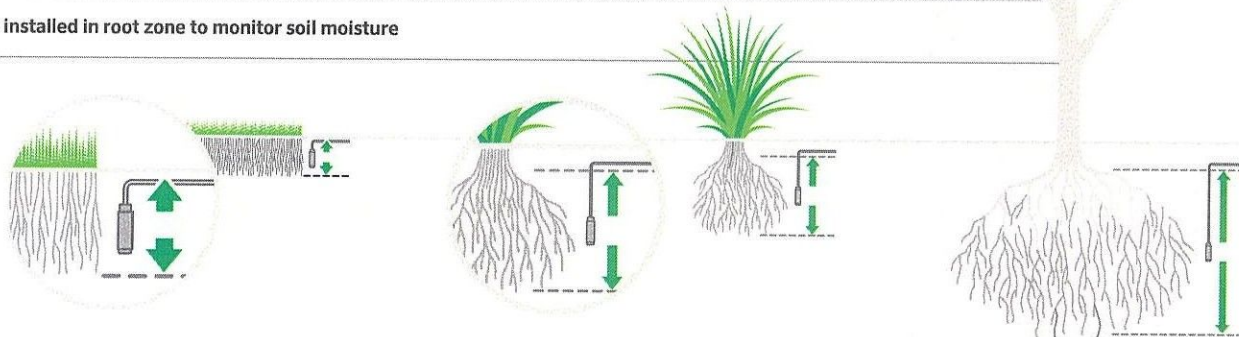
Height: 3¼"  
Diameter: 1"



SENSOR

SOIL-CLI <sup>®</sup>	
Model	Description
SOIL-CLI <sup>®</sup>	Soil-Clik moisture sensor module and probe
SC-PROBE	Soil moisture probe sensor for NODE-BT (module is not used)

Probe installed in root zone to monitor soil moisture



Compatible with:



**Waterproof Wire  
Connector**  
Page 125



**NODE-BT  
Controller**  
Page 115

In turf applications, the probe should be placed in the root zone, approximately 6" deep (adjust for actual turf conditions).

For shrubs or trees, select a deeper depth that matches the root zone. For new plantings, choose a spot halfway down the root ball, adjacent to native soil.



# HC FLOW METER

Detect, monitor, and report critical flow zone data via wired or wireless connection with this robust and simple-to-install flow sensor.

## KEY BENEFITS

- Compatible with Hydrowise® enabled HC, Pro-HC, HPC, and HCC Controllers as well as Centralus™ enabled Pro-C®, ICC2, and ACC2 Controllers
- Provides station-level flow rates and totals
- Sends automatic alerts in the event of high-flow, low-flow, or unscheduled flow conditions
- Flow reports within Hydrowise Software can display total system water use and individual station water use for accurate water budgeting and tracking
- Robust brass construction with union fittings for easy installation and removal for winterization
- Analog dial on the face of the meter displays daily flow totals

## OPERATING SPECIFICATIONS

- Scaled pulse output is precalibrated from the factory based on the size of the meter
- When wired directly to the controller, the meter must be installed with shielded, minimum 18 AWG wire, up to 1,000' from the controller
- Accuracy:  $\pm 2\%$  of reading at recommended flow
- Warranty period: 2 years

## WIRELESS HC FLOW METER BENEFITS

- Add wireless communication to any HC Flow Meter (sensor sold separately)
- Send flow data wirelessly from the sensor to the controller, without the need to run wire or dig trenches

Sensor: **Flow**



**HC-075-FLOW**  
(¾" male thread)  
Height: 3½"  
Length: 9⅞"  
Depth: 3⅞"

**HC-150-FLOW**  
(1½" male thread)  
Height: 6¼"  
Length: 16⅞"  
Depth: 4⅞"

**HC-100-FLOW**  
(1" male thread)  
Height: 3⅝"  
Length: 10¼"  
Depth: 3⅝"

**HC-200-FLOW**  
(2" male thread)  
Height: 6¼"  
Length: 17½"  
Depth: 4⅞"

## WIRELESS HC FLOW METER



## WIRELESS HC FLOW METER MODELS

Model	Description
W-HC-FLOW	Wireless HC Flow Meter Kit, includes transmitter and receiver (domestic 900 MHz)
HC-075-FLOW	HC Flow Meter with ¾" male thread, U.S. gal
HC-100-FLOW	HC Flow Meter with 1" male thread, U.S. gal
HC-150-FLOW	HC Flow Meter with 1½" male thread, U.S. gal
HC-200-FLOW	HC Flow Meter with 2" male thread, U.S. gal

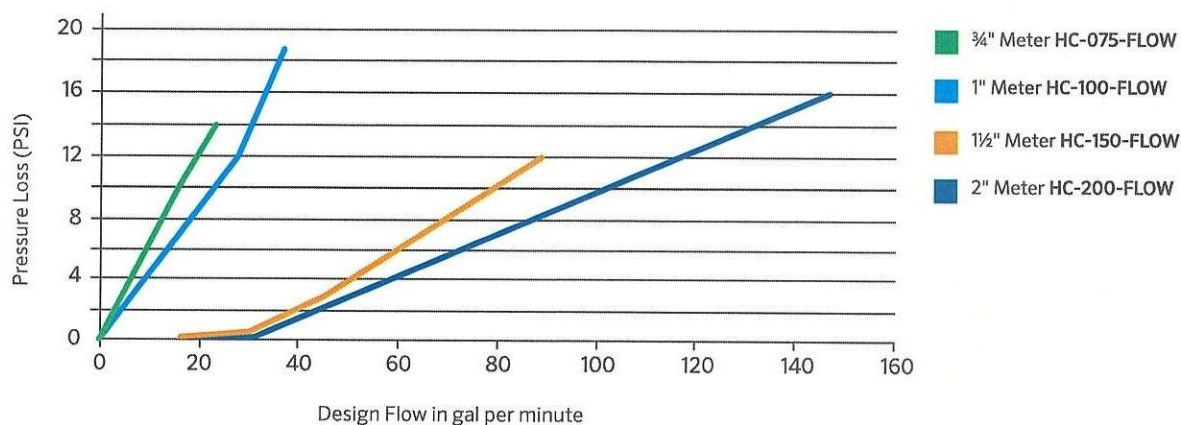
### HC FLOW METER SPECIFICATIONS

	HC-075-FLOW (¾")	HC-100-FLOW (1")	HC-150-FLOW (1½")	HC-200-FLOW (2")
Minimum flow (GPM)	0.22	0.3	0.88	1.98
Maximum recommended flow (GPM)	15	30	66	105
Maximum flow (GPM)	21	34	88	132
Dial reading (U.S. gal)	1 pulse per 0.1 U.S. gal	1 pulse per 1 U.S. gal	1 pulse per 1 U.S. gal	1 pulse per 1 U.S. gal

### WIRELESS HC FLOW METER OPERATING SPECIFICATIONS

- 500' range (line of sight) from transmitter to receiver
- Communication frequency: 900 MHz for use in North America
- Transmitter power supply: 3 AA batteries
- Receiver power supply: 24 VAC from host controller
- Warranty period: 2 years

HC FLOW METER Pressure Loss Chart





# FLOW-CLI<sup>®</sup>

Add high-flow shutoff capabilities to any irrigation controller with this simple, adjustable device.

## KEY BENEFITS

- Automatically shuts down entire system if an overflow condition occurs, helping to protect against flood damage and erosion
- Single-button calibration to set highest flow rate
- User-adjustable timing and delay for sensor response
- Compatible with all Hunter AC-powered controllers for a variety of applications
- Multi-color LED indicates system status and if flow is within limits

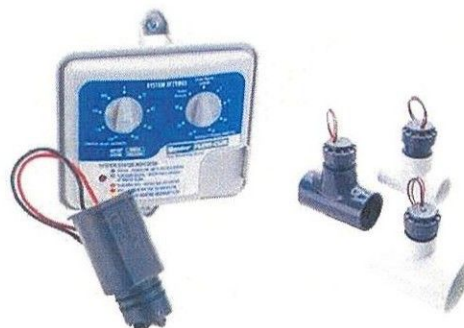
## OPERATING SPECIFICATIONS

- Recommended pressure range: 0 to 220 PSI
- Current draw (24 VAC): 0.025 A
- Switching current: 2 A maximum
- Sensor wiring: 2 x direct burial, 18 AWG or greater, color-coded or marked for polarity, up to 1,000' from the interface module
- Programmable start up delay: 0 to 300 seconds (allows for system hydraulics to stabilize and prevents false flow readings)
- Programmable interrupt period: 5 to 60 minutes (or option to reset manually)
- Warranty period: 5 years

## USER-INSTALLED OPTIONS

- FCT fittings for 1" to 4" pipe diameters

Sensor: **Flow**



**Flow-Click sensor and module shown with required FCT fitting for pipe installation (sold separately)**

### Flow-Click Module:

Height: 6"  
Width: 5¾"  
Depth: 2¼"

### Flow-Click Sensor

Height: 3½"  
Diameter: 1½"

Compatible with:



**Waterproof  
Splice Kit  
Page 125**

## FLOW-CLI<sup>®</sup>

Model	Description
FLOW-CLI <sup>®</sup>	Standard kit for all 24 VAC controllers. Includes sensor and interface module, sensor requires FCT for pipe installation.

## REQUIRED USER-INSTALLED OPTION (SPECIFY SEPARATELY)

Model	Description
FCT-100	1" Schedule 40 sensor (white) receptacle tee
FCT-150	1½" Schedule 40 sensor (white) receptacle tee
FCT-158	1½" Schedule 80 sensor (gray) receptacle tee
FCT-200	2" Schedule 40 sensor (white) receptacle tee
FCT-208	2" Schedule 80 sensor (gray) receptacle tee
FCT-300	3" Schedule 40 sensor (white) receptacle tee
FCT-308	3" Schedule 80 sensor (gray) receptacle tee
FCT-400	4" Schedule 40 sensor (white) receptacle tee

## FLOW RANGE

Pipe Diameter	Operating Range (GPM)	
	Minimum	Suggested Maximum*
1"	2	17
1½"	5	35
2"	10	55
3"	28	120
4"	34	200

### Note:

- \* Good design practice dictates the maximum flow not to exceed 5'/sec. Suggested maximum flow is based upon Class 200 IPS plastic pipe.

# FLOW-SYNC®

This cost-effective flow sensor is designed for use with commercial controllers.

Sensor: **Flow**

## KEY BENEFITS

- Simple-insertion flow sensor for metering and reacting to real-time flow conditions
- Provides station-level flow monitoring for reaction to high- or low-flow conditions, helping to protect against flood damage and erosion
- Compatible with Hunter ACC2 and legacy ACC and I-Core® Controllers, ICD-SEN Sensor Decoders, and Pro-C® and ICC2 Centralus Communication Modules
- Easy connection up to 1,000' from controller or sensor decoder
- Sensor is precalibrated for K-Factor and Offset based on pipe size, allowing for quick setup and programming within the controller

## OPERATING SPECIFICATIONS

- Recommended pressure range: 0 to 220 PSI
- Pressure loss: < 1 PSI
- Sensor wiring: 2 x direct burial, 18 AWG or greater, color-coded or marked for polarity, up to 1,000' from the controller
- Warranty period: 5 years

## USER-INSTALLED OPTIONS

- FCT tee fittings for pipe installation



**Impeller-type flow sensor, requires FCT fitting for pipe installation** (order separately)

Compatible with:



**ACC2  
Controllers**  
Page 106



**ICD-SEN  
Decoder**  
Page 121



**Waterproof  
Splice Kit**  
Page 125

CENCODE

### FLOW-SYNC

Model	Description
HFS	Hunter Flow-Sync Sensor for use with ACC2 and legacy ACC and I-Core® Controllers

### REQUIRED USER-INSTALLED OPTION (SPECIFY SEPARATELY)

Model	Description
FCT-100	1" Schedule 40 sensor receptacle tee
FCT-150	1½" Schedule 40 sensor receptacle tee
FCT-158	1½" Schedule 80 sensor receptacle tee
FCT-200	2" Schedule 40 sensor receptacle tee
FCT-208	2" Schedule 80 sensor receptacle tee
FCT-300	3" Schedule 40 sensor receptacle tee
FCT-308	3" Schedule 80 sensor receptacle tee
FCT-400	4" Schedule 40 sensor receptacle tee

### FLOW RANGE

Pipe Diameter	Operating Range (GPM)	
	Minimum	Suggested Maximum*
1"	2	17
1½"	5	35
2"	10	55
3"	28	120
4"	34	200

#### Note:

\* Good design practice dictates the maximum flow not to exceed 5"/sec. Suggested maximum flow is based upon Class 200 IPS plastic pipe.



# WFS

Use this sensor to retrofit flow to existing systems that cross under asphalt, concrete, or other hardscapes.

## KEY BENEFITS

- Wireless flow sensor saves time, materials, and labor
- Simple-insertion flow sensor for monitoring and reacting to real-time flow conditions
- Provides station-level flow monitoring for reaction to high- or low-flow conditions, helping to protect against waste and damage from leaks
- Compatible with Hunter ACC2 and legacy ACC and I-Core® Controllers, and Pro-C® and ICC2 Centralus™ Communication Modules
- Sensor is precalibrated for K-Factor and Offset based on pipe size, allowing for quick setup and programming within the controller
- Multi-color LED on the receiver indicates proper communication to the transmitter, as well as remaining battery life

## OPERATING SPECIFICATIONS

- Maximum distance sensor to receiver: 500'
- Recommended pressure range: 0 to 220 PSI
- Pressure loss: < 1 PSI
- Approvals: FCC and CE approved
- Warranty period: 5 years

## USER-INSTALLED OPTIONS

- FCT tee fittings for pipe installation

Sensor: **Flow**



### WFS Transmitter

Height: 5½"  
Diameter: 4¼"

### WFS Sensor

Height: 3¾"  
Diameter: 2¼"

### WFS Receiver

Height: 5"  
Width: 3"  
Depth: 1½"

Compatible with:



**ACC2  
Controllers**  
Page 106

## WIRELESS FLOW SENSOR

Model	Description
WFS	Wireless Flow Sensor Kit – Domestic 900 MHz
WFS-T	Wireless Flow Sensor Kit Transmitter Only – Domestic 900 MHz
WFS-R	Wireless Flow Sensor Kit Receiver Only – Domestic 900 MHz
WFS-ALKBATT	Wireless Flow Sensor Alkaline Battery with Cage

## REQUIRED USER-INSTALLED OPTION (SPECIFY SEPARATELY)

Model	Description
FCT-100	1" Schedule 40 sensor (white) receptacle tee
FCT-150	1½" Schedule 40 sensor (white) receptacle tee
FCT-158	1½" Schedule 80 sensor (gray) receptacle tee
FCT-200	2" Schedule 40 sensor (white) receptacle tee
FCT-208	2" Schedule 80 sensor (gray) receptacle tee
FCT-300	3" Schedule 40 sensor (white) receptacle tee
FCT-308	3" Schedule 80 sensor (gray) receptacle tee
FCT-400	4" Schedule 40 sensor (white) receptacle tee

## FLOW RANGE

Pipe Diameter	Operating Range (GPM)	
	Minimum	Suggested Maximum*
1"	2	17
1½"	5	35
2"	10	55
3"	28	120
4"	34	200

### Note:

- \* Good design practice dictates the maximum flow not to exceed 5'/sec. Suggested maximum flow is based upon Class 200 IPS plastic pipe.







## WORK SMARTER, NOT HARDER

### ABOVE AND BELOW

Use the Solar Sync Sensor with the Soil-Clik Sensor to measure both climate and soil conditions. Solar Sync uses ET to adjust application amounts when irrigation is needed. Soil-Clik prevents watering when proper soil moisture levels have been reached. Together, they're the ultimate environmentally responsive solution.

#### **Solar Sync®** *Sensor Above*

- **Water-Saving:** Automatically adjusts run times based on local weather conditions
- **Responsive:** Shuts down irrigation during rainfall and freezing conditions
- **Convenient:** Wired or wireless models available

#### **Soil-Clik®** *Sensor Below*

- **Water-Saving:** Measures soil moisture and prevents unnecessary irrigation
- **Easy:** Simple installation and push-button operation
- **Flexible:** Use with any Hunter AC-powered controller and most other brands