



Mini-Clik®

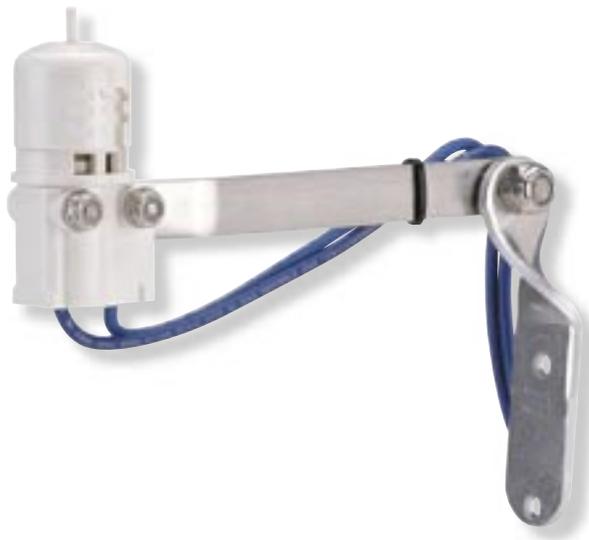
The world's most simple, accurate, rugged and reliable rain sensors.

There's nothing more embarrassing – or more wasteful or costly – than an irrigation system that runs when it doesn't have to...in the rain. Mini-Clik provides the simplest, most effective way to prevent sprinklers from coming on during or after precipitation. It easily installs on any automatic irrigation system, then shuts sprinklers off in a storm and keeps them off, automatically compensating for the amount of rainfall that occurred. Disks absorb water and expand proportionally to the amount of rain that fell (e.g., a small cloudburst would result in little absorption, a 6" thunderstorm would lead to more absorption and expansion). As the moisture-laden disks expand, they eventually activate a switch that interrupts the circuit from the controller to the solenoid valves. Once dry, they contract and release the switch. Thus, Mini-Clik automatically resets without ever affecting your controller. There's no better way to ensure that a system isn't watering when it isn't necessary.



By compensating for the effects of natural rainfall, the Mini-Clik saves water and typically pays for itself in just one season.

FEATURES & BENEFITS



Easily installs on any automatic irrigation system

Versatile enough to work with all popular controllers

Patented mechanism cannot be fouled by dirt or debris

Reliable operation, no false shutdowns

Adjusts to actuate at various rainfall quantities

Set from 1/8" to 1" based upon your local conditions

Includes 25 feet of 20 gauge two conductor wire

Fast and easy mounting out of sight

5-year warranty

Your guarantee of dependable operation



SENSOR GUARD: VANDAL RESISTANCE AND RAIN SENSOR ALL-IN-ONE

Combining the reliability of a Mini-Clik Rain Sensor with the security of a compact vandal resistant enclosure, the Sensor Guard is perfect for sports facilities, golf courses and municipal sites. Easy to install, the Sensor Guard includes a Mini-Clik conduit rain sensor plus stainless steel mounting bolts and a drill template. For peace of mind, you'll want to get your hands on the rain sensor that's designed to keep others' hands off.

Model: SG-MC



MODELS

- MINI-CLIK – standard Mini-Clik model
- MINI-CLIK-HV – code approved for liquid tight electrical fittings for 120 or 240 volt wiring applications
- MINI-CLIK-C – ½" female threaded inlet at bottom
- MINI-CLIK-NO – normally open switch
- MINI-CLIK-C-NO – ½" female threaded inlet at bottom, normally open switch

DIMENSIONS

- Height: 5 inches
- Length: MINI-CLIK: 6 inches
MINI-CLIK-HV: 7½ inches

OPERATING SPECIFICATIONS

- Switch Rating: 10.1 amps, at 125/250VAC
- Wiring: MINI-CLIK and MINI-CLIK-C: Typically interrupts the common ground wire between the solenoid valves and the controller
MINI-CLIK-HV: For use with high voltage irrigation systems, and systems using pumps drawing less than 10 amps peak
MINI-CLIK-NO: for use with controllers that require a normally open sensor switch
- Included: 25 ft. of #20 two conductor wire, two mounting screws, controller identification label and detailed instructions
- UL listed

SPECIFICATION GUIDE

EXAMPLE: **MINI-CLIK - HV**

MODEL	OPTIONS
MINI-CLIK	HV = High Voltage Model for 110/220VAC Applications C = Conduit Mount NO = Normally Open Switch

Note: For Mini-Clik in Sensor Guard enclosure, specify SG-MC. To add Bypass Switch Box to any non-Hunter controller installation, specify BPSW with sensor. Bypass switch function is standard in all Hunter controllers.

MINI-CLIK RAIN SENSORS

All Mini-Clik rain sensors are UL Listed and available in three different models to accommodate your particular wiring needs.

MINI-CLIK



The standard Mini-Clik model, for use in most applications. Constructed of high impact thermoplastic and aluminum. Simple click-stop settings accurately measure rainfall in quantities of 1/8" to 1". Reset rate is adjustable. Model: MINI-CLIK

MINI-CLIK-C



Features a ½" female threaded inlet at the bottom to accommodate any type of conduit to enclose wire. Electrical PVC or plumbing PVC pipe can be used with this unit since it is intended for 24 volt applications. Model: MINI-CLIK-C

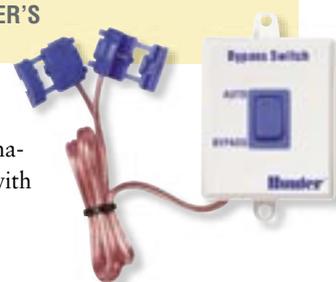
MINI-CLIK-HV



Adds in code approved liquid-tight electrical fittings for 120 or 240 volt wiring applications. Also includes 18 inches of 16 AWG installation wire. Integral bracket with supplied electrical fittings and conduit. Ready to mount on any standard junction box. Model: MINI-CLIK-HV

BYPASS SWITCH BOX: GIVE ANY AUTOMATIC CONTROLLER'S REMOTE SENSORS THE CAPABILITY TO BYPASS

It's the easy way to put a system in the manual mode as would be needed during servicing and troubleshooting operations. Featuring a compact, heavy-duty switch mechanism, the Bypass Switch Box mounts quickly and easily with its no-strip wire connectors and supplied adhesive tape.



Rain-Clik™

The reliable rain sensor with instant shutoff.

Most rain-sensing devices must first accumulate a set amount of rainfall before a switch is activated that interrupts the circuit from the controller and shuts off the system. In that “accumulation time,” the system will continue to water, giving the appearance a precious resource is being wasted...exactly the opposite impression a municipality, a business or an upstanding citizen would like to convey. Only the Hunter Rain-Clik™, with its unique Quick Response™ feature, can command a controller to shut off immediately – not after a quarter- or a half-inch, but right when it starts to rain. And, unlike any of its competitors, the Rain-Clik can be mounted in a variety of ways: on a rain gutter, on conduit, with a telescoping extension to bring the unit away from an eave, or in the standard method on a flat vertical surface like a wall or fence.



Hunter Rain-Clik products are the industry's only rain sensors that shut off an irrigation system at the first drop of rain.

FEATURES & BENEFITS



Hunter's unique Quick Response feature

No need for water to accumulate for shutoff

Modular mounting options

Variety of choices depending on the job site; gutter, wall or conduit mount

Set a maximum dry-out period

Adjust the irrigation re-start to account for varying amounts of rain

Maintenance-free patented sensing mechanism

No callbacks – just set it and forget it

Includes 25' of 20 gauge two-conductor wire

Simple to add on to a new or existing installation

Optional bypass switch

Adds flexibility to the system

5-year warranty

Hunter backs up its products with the industry's best guarantee

MODELS

Rain-Clik – standard (normally closed switch)

Rain-Clik-NO – normally open switch

DIMENSIONS

- 3¼" diameter x 2" high

OPERATING SPECIFICATIONS

- Wiring: normally closed or normally open
- Time to turn off irrigation system: 2 to 5 minutes for the Quick Response feature
- Time to reset the Quick Response unit: 4 hours maximum under dry sunny conditions
- Time to reset: 3 days maximum under dry sunny conditions for the total rainfall compensation unit
- Switching capabilities: Single Pole Double throw – 24 volts 3 amps
- Operating temperature: 32°F to 130°F (0°C to 54°C)
- Vent ring allows for adjustment of reset delay
- UV colorfast and stable materials
- UL listed

ELECTRICAL SPECIFICATIONS

- 24 volt, 3 AMP Switch

SPECIFICATION GUIDE

EXAMPLE: **RAIN-CLIK**

MODEL	OPTION
RAIN-CLIK	NO = Normally Open Switch

Note: To add Bypass Switch Box to any non-Hunter controller installation, specify BPSW with sensor. Bypass switch function is standard in all Hunter controllers.

Wireless Rain-Clik™

The first reliable wireless rain sensor.

If the thought of running wires from a controller has kept you from adding rain sensors to your systems, now there's a hassle-free alternative. The Hunter Wireless Rain-Clik™ attaches quickly and easily – simply install the receiver unit next to your irrigation controller, then install the transmitter anywhere that the device can receive representative rainfall. No ladders needed to attach to a high outcropping on a building, no messy wires to hide out of view. What also sets a Hunter Rain-Clik apart are features no other rain-sensing device offers. The unique Quick Response™ feature allows the product to shut off immediately when it starts to rain. And, unlike its competition, Hunter's sophisticated sensing mechanism cannot be fouled by debris, giving the Wireless Rain-Clik the most highly accurate operation.

FEATURES & BENEFITS



Hassle-free, wire-free easy installation

Simple to add on to a new or existing installation

Hunter's unique Quick Response feature

No need for water to accumulate for shutoff

Modular mounting options

Variety of choices depending on the job site; gutter or wall mounts

Set a maximum dry-out period

Adjust the irrigation re-start to account for varying amounts of rain

Operates up to 300' from the receiver unit

Typical wired system limitations vanish

Maintenance-free patented sensing mechanism

No callbacks – just set it and forget it

Built-in bypass switch on receiver panel

Adds flexibility to the system

Retrofit with ease

Installs on any system in minutes, no stringing of wiring



SENSORS

MODELS

Wireless Rain-Clik

DIMENSIONS

3¼" diameter x 4" high

OPERATING SPECIFICATIONS

- Wiring: normally closed or normally open
- Time to turn off irrigation system: 2 to 5 minutes for Quick Response
- Time to reset Quick Response unit: 4 hours maximum under dry sunny conditions
- Time to reset: 3 days maximum under dry sunny conditions for the total rainfall compensation unit
- Operating temperature: 32°F to 130°F (0°C to 54°C)
- Vent ring allows for adjustment of reset delay
- UV colorfast and stable
- UL listed, FCC/DOC approved, suitable for use in Australia, CUL (CSA), CE
- Rain sensor transmitting range: up to 300 feet line of sight

ELECTRICAL SPECIFICATIONS

- Receiver power: 22-28VAC/VDC, 100 mA (from timer transformer)
- Receiver includes built-in bypass switch, no extra switch required
- Works with all standard controllers

SPECIFICATION GUIDE

EXAMPLE: **WIRELESS RAIN-CLIK**

MODEL

WIRELESS RAIN-CLIK

OPTION

E = Europe/Australia and other markets (433 MHz operating frequency)

Consult with factory for compatibility in export markets.

Freeze-Clik®

Control irrigation system operation during freezing temperatures.



SPECIFICATION GUIDE

EXAMPLE: **FREEZE-CLIK - REV**

MODEL	OPTION
FREEZE-CLIK	REV = Reverse Switching

Note: To add Bypass Switch Box to any non-Hunter controller installation, specify BPSW with sensor. Bypass switch function is standard in all Hunter controllers.

FEATURES & BENEFITS

Installs simply and easily

No adjustment necessary

Double-epoxy sealed sensing element

Aids the accuracy of temperature sensing

Can be used in conjunction with other sensors

Enhances the overall automation of irrigation systems

5-year warranty

Your guarantee of dependable operation

SPECIFICATIONS

- Length: 4½ inches (adjustable)
- Temperature set point: 3°C +/- 2°C (37°F)
- Temperature differential: +/- 1°C
- Electrical rating: 24VAC 6 amps
- UL listing: Class II Low Voltage (24 volt use only)
- Switching: Closed-above 3°C; Open-below 3°C (Reverse switching model)
- Included: 25 ft. of #20 two conductor wire, two mounting screws and detailed instructions
- UL listed

Special Usage Note: For landscape applications only. Not for crop protection. A freeze sensor should only be used as part of a sound irrigation system management program, including regular system visual checks

Wind-Clik®

Control irrigation system operation during high wind conditions.



SPECIFICATION GUIDE

EXAMPLE: **WIND-CLIK**

MODEL
WIND-CLIK

Note: To add Bypass Switch Box to any non-Hunter controller installation, specify BPSW with sensor. Bypass switch function is standard in all Hunter controllers.

FEATURES & BENEFITS

Designed for two types of operation

Either “normally open” or “normally closed” wiring

Adjusts to actuate at various wind speeds

Sets to shut down system from 12 to 35 mph

Adjustable reset wind speeds

Set from 8 to 24 mph, based on local conditions

Can control fountain systems

Eliminates overspray in windy conditions

SPECIFICATIONS

- Height: 3.9 inches
- Wind vane diameter: 5 inches
- Switch rating: 250VAC 5 amps
- Rated: 24 volts 5 amps as wired
Wire “normally open” or “normally closed”
- Wind speed adjustment:
Actuation: 12 to 35 mph
Reset: 8 to 24 mph
- Mounts: Slip fits over 2" PVC pipe or attaches to ½" conduit with adapter (supplied with unit)

Mini-Weather Station

Control irrigation system operation with sensors for wind, rain and temperature.



FEATURES & BENEFITS

Easily installs on auto irrigation system

Versatile enough to meet your particular needs

Shuts system off in rainy conditions

Sets from ¼" to 1" based on your local conditions

Sets to shut down system from 12 to 35 mph winds

Choose the wind speed most effective for your area

Shuts off water at 37°F

Eliminates ice on landscapes, walkways, roadways

SPECIFICATIONS

- Electrical rating: 120 volts, 5 amps max
- Mini-Clik-C - Adjustable settings: measure rainfall in quantities of ¼" to 1"
- Wind-Clik
Wind vane diameter: 5 inches
Wind speed adjustments:
Actuation: 12 to 35 mph
Reset: 8 to 24
- Freeze-Clik temperature set point: 37°F (3°C) +/- 2° C
Temperature differential: +/- 1° C
Sensor element: Double epoxy sealed, weatherproof

SPECIFICATION GUIDE

EXAMPLE: **MWS - FR**

MODEL	OPTION
MWS = Wind and Rain Sensors	FR = Combines Wind, Rain and Freeze Sensors

Note: To add Bypass Switch Box to any non-Hunter controller installation, specify BPSW with sensor. Bypass switch function is standard in all Hunter controllers.

Flow-Clik

Automatically shuts down system if an overflow condition occurs.

A ruptured pipe or broken sprinkler that is left undetected can result in a substantial amount of damage. Plants and ground cover can be flooded, a slope can be eroded, even solid surfaces such as sidewalks or driveways can be undercut. The installation of a Flow-Clik can help identify a break before any damage can occur. The Flow-Clik is user-set to activate at a specified level of flow; once that level is exceeded, the electrical circuit is broken and the valves are shut off. As a result, the amount of water loss in the event of high external leakage would be substantially reduced.



FEATURES & BENEFITS



Reduced costs for rupture-related repairs

Unanticipated budget allocations kept to a minimum

Weatherproof interface panel provides system status

“Overflow watchdog” provides constant update for any system

Compatible with all commercial and residential piping systems

Large flow range provides complete flexibility

Customized calibration for precise system control

Every irrigation system is set individually with a single push button

Multi-color LED provides system status

Displays if power is applied and whether flow is acceptable

DIMENSIONS

Flow-Clik Sensor Body:

- FCT 100 (4.8"H x 2.3"W x 4.5"L)
- FCT 150 (5.4"H x 2.3"W x 4.6"L)
- FCT 158 (5.4"H x 2.3"W x 5.1"L)
- FCT 200 (5.9"H x 2.7"W x 4.7"L)
- FCT 208 (6.0"H x 2.9"W x 5.4"L)
- FCT 300 (7.0"H x 4.0"W x 6.2"L)
- FCT 308 (7.0"H x 4.2"W x 6.4"L)

Interface Panel:

(4.5"H x 5.5"W x 1.5"D) Not required for Flow-Clik IMMS

OPERATING SPECIFICATIONS

- Temperature: 0-150 degrees F
- Pressures: up to 200 PSI
- Humidity: up to 100%

FLOW-CLIK INTERFACE PANEL

- 4 36" leads provided for easy wiring to controller (2 wires to controller 24VAC terminals and 2 wires to sensor and terminals)

ELECTRICAL SPECIFICATIONS

- Current draw: @24VAC .025 Amps
- Switching current: 2.0 Amps
- Maximum distance between interface panel and sensor = 1000 ft. (18 gauge minimum wire size) 2 wires required for Flow-Clik Sensor, 4 wires required for Flow-Clik IMMS Sensor to IMMS Interface

ADDITIONAL FEATURES

- Programmable start up delay (0 to 300 Seconds)
- Programmable interrupt period (2 to 60 Minutes)
- System status indicator light
- One button system calibration to highest flow zone

FLOW RANGE			
FLOW SENSOR DIAMETER	OPERATING RANGE (GPM)		
	MINIMUM*	SUGGESTED MAXIMUM**	MAXIMUM
1"	6	17	50
1½"	13	35	100
2"	20	55	200
3"	40	120	300

* Minimum recommended flow for the highest flow zone for your system

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

NOTE: Highest flow zone within irrigation system should not be more than 75% maximum available system flow.

SPECIFICATION GUIDE

EXAMPLE: **FLOW-CLIK - 150**

MODEL
FLOW-CLIK = Standard Version for all 24VAC Controllers (includes sensor and interface panel)
FLOW-CLIK IMMS = Version for use with IMMS™ Central Control (includes sensor only - interface panel not required for IMMS™)

FEATURES
100 = 1" Schedule 40 Sensor Body
150 = 1½" Schedule 40 Sensor Body
158 = 1½" Schedule 80 Sensor Body
200 = 2" Schedule 40 Sensor Body
208 = 2" Schedule 80 Sensor Body
300 = 3" Schedule 40 Sensor Body
308 = 3" Schedule 80 Sensor Body

NOTE = Order Flow-Clik Sensor Bodies Separately (FCT series)