

Hunter Mini-Clik® Sensor Written Specifications

Part 1 – General

- 1.1 The Mini-Clik rain sensor stops scheduled irrigation when it detects a preset level of accumulated rainfall by interrupting power from the controller to the valves via a sensor terminal with wired or wireless communication.

Part 2 – Sensor Enclosures

- 2.1 All Mini-Clik sensors shall be integrated into a single array and housed in a corrosion- and UV-resistant plastic casing.
- 2.2 All Mini-Clik sensors shall have the following encasing options for security and vandal resistance:
- A. Mini-Clik wired sensor guard enclosure:
 - 1. The sensor guard shall be Hunter Industries model SG-MC (includes sensor).
 - 2. The enclosure material shall be 16 AWG (1.5 mm²) 304 stainless steel with #4 finish.
 - 3. Preassembled guard with sensor installed shall have a height of 5½" (14 cm), length of 3" (8 cm), and depth of 4" (10 cm).
 - 4. Four carriage bolts and nuts shall secure the enclosure.
 - 5. The enclosure shall be mountable to pedestals or exposed flat surfaces.
 - B. Mini-Clik wireless sensor guard enclosure:
 - 1. The sensor guard shall be Hunter Industries model WS-GUARD.
 - 2. The enclosure material shall be 16 AWG (1.5 mm²) 304 stainless steel with #4 finish.
 - 3. Preassembled guard shall have a height of 2¾" (7 cm), length of 3¾" (10 cm), and depth of 1¼" (3 cm).
 - 4. Four #8-32 Allen screws shall secure the enclosure.
 - 5. The enclosure shall be mountable to pipes or exposed flat surfaces.
 - C. Mini-Clik wireless receiver guard enclosure:
 - 1. The receiver guard shall be Hunter Industries model WR-GUARD.
 - 2. The enclosure material shall be 16 AWG (1.5 mm²) 304 stainless steel with #4 finish.
 - 3. Preassembled guard shall have a height of 5" (13 cm), length of 4" (10 cm), and depth of 1¼" (3 cm).
 - 4. Four #8-32 Allen screws shall secure the enclosure.
 - 5. The enclosure shall have a foam gasket to prevent water intrusion inside the pedestal.
 - 6. The enclosure shall be mountable to a pedestal or flat surface with ½" (13 mm) hole for conduit.

Part 3 – Sensor Hardware

3.1 Components

- A. The wired rain sensor circuitry shall utilize one set of hydroscopic discs to activate the switch in the unit for the total rainfall compensation. The sensor shall be adjustable, using settings on the unit to measure rainfall quantities of ⅛" (3 mm) to ¼" (19 mm). The reset rate of the unit shall be a nonadjustable opening allowing variable evaporation from the discs.
- B. The wireless rain sensor circuitry shall utilize two sets of hydroscopic discs to activate switches in the unit. One switch will be for the total rainfall compensation unit and the other for the Quick Response® unit. The Quick Response unit will turn off the irrigation system within five minutes of the onset of precipitation, depending on the intensity. The built-in temperature sensor shall be capable of interrupting the power from the irrigation controller to the valves when ambient air temperature falls below 37°F (3°C). The reset rate of the unit shall be a nonadjustable opening allowing variable evaporation from the discs.
- C. The sensor shall have an integral, adjustable, aluminum mounting bracket that allows installation on angled as well as perpendicular surfaces. The sensor shall have a mounting option that allows for installation on a rain gutter or PVC conduit.

3.2 Warranty

- A. The Mini-Clik shall be installed in accordance with the manufacturer's published instructions and carry a conditional five-year exchange warranty. The Mini-Clik shall be manufactured for Hunter Industries Incorporated, San Marcos, California.

Part 4 – Operating Specifications

4.1 Hardware

- A. The wired Mini-Clik sensor shall be mounted within 200' (60 m) of the irrigation controller. Wired models shall include 25' of 20 AWG (7.6 m of 0.5 mm²) sheathed, two-conductor, UL-approved wire.
- B. The wireless Mini-Clik sensor shall be mounted within 800' (243 m) line-of-sight from the irrigation controller. Wireless model operating frequency shall be 433 MHz approved for global use. Multiple wireless receivers shall be operable from a single wireless sensor. An integrated battery shall provide continuous power for at least five years.
- C. The wireless sensor shall include individual sensors for rain and freeze sensing.

4.2 General

- A. The sensor shall be fully functional with 24 VAC input or less, with a current draw of 3 mA, and shall not require a dedicated high-voltage transformer or connection.

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