Hunter Soil-Clik® Sensor Written Specifications

**Part 1 – General**

1.1 The Soil-Clik Sensor stops scheduled irrigation when it detects soil moisture in excess of a preset level by interrupting the power from the irrigation controller to the valves via a sensor terminal with wired communication.

**Part 2 – Parts and Material**

1. Sensors shall be available in the following options: Soil-Clik Sensor and SC-Probe. The soil moisture monitoring system shall consist of a solid-state, low-voltage, outdoor control module mounted within 6' (2 m) of the host irrigation controller, wired to a soil moisture probe consisting of ABS plastic caps with a stainless steel body over a hydrophilic, fabric-covered granular matrix with embedded stainless steel electrodes.
	1. Soil Moisture Control Module
		1. The control module shall be designed for outdoor mounting, although protection from direct sunlight and direct sprinkler spray is recommended.
		2. The control module shall operate on 24 VAC power from the host controller.
		3. The control module shall have color-coded wiring for all connections, including 24 V power, the soil probe, and the module output.
		4. The output shall consist of a relay-actuated, normally closed contact closure suitable for compatible controller sensor input, or for common wire interrupt in a 24 VAC irrigation valve wiring system.
	2. Soil Moisture Probe
		1. The probe shall consist of ABS plastic caps with a stainless steel body over a hydrophilic, fabric-covered granular matrix with embedded stainless steel electrodes.
		2. The probe shall be installed up to 1,000' (300 m) from the control module using 18 AWG (1 mm2) direct-burial-rated wire.
		3. When used with the Hunter NODE-BT Bluetooth® Battery-Operated Controller, the probe shall be installed up to 100' (30 m) from the control module using 18 AWG (1 mm2) direct-burial-rated wire.
		4. No more than one soil moisture probe shall be connected to a single soil moisture control module. Multiple control modules may be connected to controllers having more than one available sensor input.
2. Part Dimension Description
	1. Soil Moisture Control Module
		1. Height: 4½" (11.4 cm)
		2. Width: 3½" (8.9 cm)
		3. Depth: 1¼" (3.2 cm)
		4. Power: 24 VAC, max 100 mA
		5. Wire leads: 31½" (80 cm)
	2. Soil Moisture Probe
		1. Diameter: ⅘" (2 cm)
		2. Height: 3¼" (8.3 cm)
		3. Wire to probe: 1,000' (300 m), max 18 AWG (1 mm2) direct-burial-rated wire
		4. Wire leads: 31½" (80 cm)
3. Warranty
	1. The Soil-Clik Sensor shall be installed in accordance with the manufacturer’s published instructions and shall carry a conditional five-year exchange warranty. The Soil-Clik Sensor shall be as manufactured for Hunter Industries Incorporated, San Marcos, California

**Part 3 – Function and Operation**

1. Components
	1. Soil Moisture Control Module
		1. The control module shall be provided with suitable mounting hardware for common exterior applications, including screws and anchors.
		2. The control module shall have an LCD display and sealed push buttons for programming.
		3. The control module shall display the current soil moisture level and permit the operator to update the reading at any time.
		4. The control module shall allow the user to visually set the desired moisture level, and shall provide sensor output to the controller, or common wire interrupt, when the level is reached.
		5. The control module display shall indicate whenever the module has interrupted irrigation.
		6. The control module shall also permit an override (or pause) by the user, to permit irrigation regardless of moisture level under special circumstances.
		7. The control module shall provide a clear visual indication when it is overridden, until the operator restores it to normal control.
	2. Soil Moisture Probe
		1. The probe shall be located within the last zone of irrigation scheduled to run by the controller to prevent premature interruption of normal watering.
		2. The probe shall be placed in the sunniest, driest spot of the irrigated area.
		3. The probe shall be installed so that it is in full contact with the native soil. The probe shall be placed in a vertical position (within 45°) within the root zone of irrigated plants that are typical of the landscape.
		4. The probe shall not be installed horizontally under any circumstance.
		5. The probe shall be installed in a bored hole with a diameter of ⅞" (22 mm), followed by a slurry mixed of water and native soil, to enhance contact with the soil.
2. General
	1. The Soil-Clik 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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