Technical Data

Toro > Sensors

> Wireless Humidity

mm	Rec.	Sen.
Hei.	95	95
Wid.	76	127
Dep.	38	19
Tips S.		121

Code	Description
OSN011	Humidity sensor wireless kit and precision soil sensor control system

DESCRIPTION:

Electrical Specifications

- Receiver voltage: 24V AC
- Probe: 3 AA batteries

Temperature

- Operating (probe): -10° C ÷ 77° C
- Storage: -30° C ÷ 65° C
- Service (receiver): -10° C ÷ 60° C

Technical specifications and exclusive features

- The receiving element of the sensor connects to the appropriate socket in the programmer (if provided) or to the common cable
- Transmission range up to 152,4 m
- One sensor per receiver
- Adjustable humidity threshold in 1% increments, for setting the desired humidity level
- The sensor automatically determines the soil type and adjusts the calculations accordingly
- The frost detection function prevents irrigation at temperatures close to freezing
- The intelligent bypass excludes the sensor for a period defined by the user (particularly useful in preparing the system for winter)

- In case of sensor intervention during the execution of an irrigation program, the "cycle delay" function allows you to irrigate all subsequent zones in the program, before the sensor stops irrigation
- The sensor's multicolored LED indicates the intensity of the radio signal
- The ultra-thin profile (1,9 cm) protects the sensor from possible damage caused by cutting equipment
- The extra-long stainless steel electrodes penetrate over 10 cm into the ground
- Once installed, the sensor is held securely in place by the support rods
- Easily replaceable batteries (alkaline batteries last up to 2 years, lithium batteries last longer)

How does it work:

- The system consists of two elements: a battery-operated, wireless probe, and a receiver connected to the appropriate socket in any irrigation programmer
- Once installed, the sensor calculates the field capacity of the soil (the maximum amount of water that the soil can retain after the excess has been disposed of) and sets it as "100%"
- Whenever the soil moisture level exceeds the field capacity, irrigation is excluded until the humidity level is lower than the level set in the receiver (default 50% of the field capacity, adjustable by the user)

Range of transmission until 152,4 m
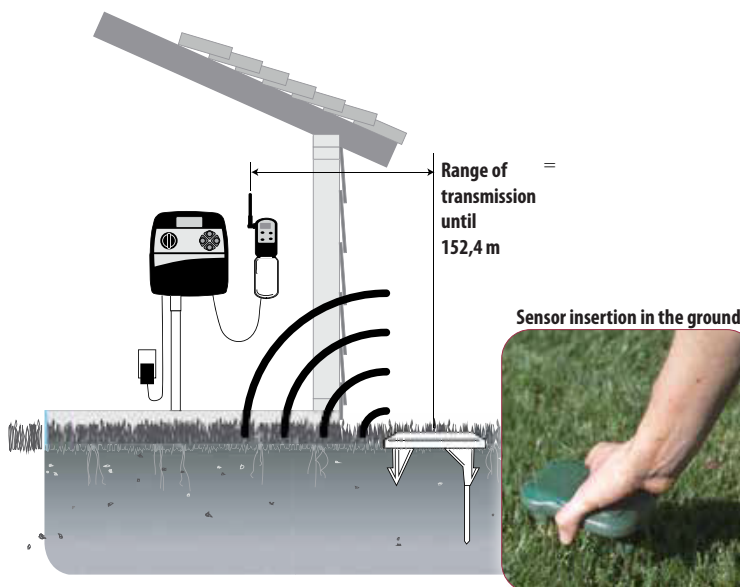
Sensor insertion in the ground