



Digital Sun

S.Sense User Guide

Draft 1.1

Introduction

S.Sense water-saving wireless sensors work with your existing sprinkler controller to help maintain the moisture level in the soil without over-watering. This saves you water and time.

System Overview

The S.Sense system consists a Receiver Unit that connects to your existing controller and one or more Sensor Probe Units. The Sensor Probe Unit continuously monitors soil moisture and communicates wirelessly with the Receiver Unit. The Receiver Unit adjusts the signals from your existing sprinkler controller based on the information received from the Sensor Probe Unit.

Connections

The S.Sense receiver has three external connections provided for the user. They are described below:

1. Common Line Connection: The two wires available from the receiver are for connecting the unit to the common line of the sprinkler controller. This enables the Receiver to control how much time the sprinklers are turned on.
2. DC Power Jack: This jack allows you to power the unit from an AC power source with the included power supply instead of AA batteries.
3. Serial Port: This port is an expansion port that enables connection to a personal computer through an RS-232 serial connection for software updates. It is not used during normal operation.

Operation

The Sensor Probe Unit installs into the soil being irrigated by your sprinkler system and the Receiver Unit connects to the existing sprinkler system controller. Setup is consists of verifying the wireless connection, setting the desired moisture level that should be maintained and setting the soil type.

Installation Steps

1. Insert battery into probe, use probe tool to make a hole in lawn, carefully slide probe into lawn

2. Set receiver on top of existing sprinkler controller

3. Remove common wire (COM) from existing sprinkler controller

4. Connect wire from receiver to COM terminal on existing sprinkler controller

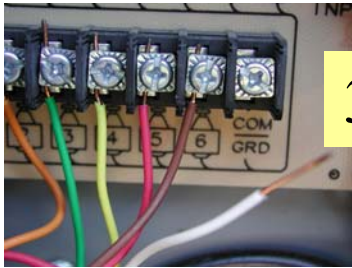
5. Use wirenut to connect blue wire from receiver to the wire you disconnected in step 3

6. Press the Menu button on the receiver till it lights up “Wireless Signal”
If it is weak move the probe towards the receiver.

2.



6.



3.



1.

7. Press the menu button until the LED reads select moisture, use $\pm$ keys to select moisture desired (default =3)

8. Press the menu button until the LED reads select soil type, use $\pm$ keys to select soil desired (default =3)

9. Set existing timer to maximum watering schedule

10. Enjoy your new Digital Sun S.Sense

FCC Information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

15.21 Information to user.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCCID Probe : RQT-DS-SS1000-P

FCCID Receiver : RQT-DS-SS1000-R