

THE STATION MASTER - MODEL 24 IRRIGATION SYSTEM TESTER & SOLENOID ACTIVATOR

1. GENERAL

The Model 24 Station Master is a portable, battery operated irrigation system diagnostic tester and solenoid activator.

2. DESCRIPTION

The Model 24 is housed in a black, high impact, ABS plastic case measuring 4"x2½"x1½". It weighs 6 ounces and is equipped with 24" long cords, with wire insulation piercing alligator clips and protective boots for easy connection. The LED (light emitting diode) is ultra-intense insuring high visibility in bright sunlight. The toggle switch controls the functions and is protected by an aluminum switch guard.

3. OPERATION

A. Battery Test

Place the toggle switch in the "ON" position and connect the leads together. If the LED glows, the batteries are suitable for use: (Batteries must supply at least 12.5V for "good" indication.) See Section 4 for battery replacement.

B. Current Test (At Clock)

With the clock on and turned to the station under test, place the Station Master in the "OFF" position and connect the leads to the station and common wires. If the LED glows, the clock is supplying enough current to operate solenoids.

C. Wire Test

NOTE: TO INSURE PROPER CONNECTION, PLACE THE WIRE FAR ENOUGH INTO THE JAW OF THE ALLIGATOR CLIP SO THE PIN WILL PIERCE THE INSULATION AND THE CONDUCTOR.

Turn the clock on and cycle to the station under test. Go out to the valve and with the Station Master in the "OFF" position, hook the leads to the station and common wires and note condition of LED.

If the LED glows, this indicates the station and common wires are in "good" condition.

(The clock must be supplying 24 VOLTS with less than 180 OHMS of loop resistance to indicate a "good" condition.)



D. Activating Solenoids

To activate solenoids from the clock, turn the clock off and connect the Station Master to the common and station wires of the zone under test and turn the Station Master "ON". If the solenoid and control wires are good and if there is no mechanical problem with the valve, the station will water.

To activate a solenoid at the valve, make sure the clock is off and connect the leads to the station and common wires and turn the Station Master "ON". This will activate the solenoid. The Model 24 must be turned "OFF" then "ON" to activate a solenoid. The Station Master will hold a solenoid open for over three (3) hours with fresh batteries.

4. MAINTENANCE

The only field maintenance required by the Model 24 is the periodic replacement of the two (2) standard 9-volt alkaline batteries. Remove the four (4) screws on the back, snap in fresh batteries and reassemble.