

MC-E SERIES SOLID STATE

Bidding Specifications

Automatic Controller(s) shall be the MC-E Series with stations (4, 6, 8, 12, 18, 24, 30, 36, 42 or 48) as manufactured under the brand name of Irritrol to be installed or wired in accordance with manufacturer's published instructions and applicable electrical codes.

Operation: Controller shall be electronically controlled and have 8 independent watering programs that can run concurrently with each station's watering time independently variable from 1 to 59 seconds, in 1-second increments, or 1 minute to 24 hours in 1-minute increments. Controller shall have watering day options of any-days-of-the-week, Odd or Even date or day intervals from 1 (water every day) up to 60 (water once every two months). Each program shall have up to 8 start times available per water day. Controller shall have a flow sensing feature with the capability of detecting over flow, under flow and unscheduled flow conditions. Controller shall shut off the valve or master valve upstream of the unwanted flow event and shall activate an alarm. Controller shall have the option of a remote alarm utilizing station #2 as a dedicated alarm circuit. Controller shall provide for the connection of a flow sensor as well as an interrupt sensor and a start sensor. Each program shall have a "looping" cycle option that shall allow a start time and an end time for the cycle and a delay between loops.

Controller shall utilize a 2-line, 32-character, backlit, dot matrix display for clarity of programming. Controller shall have a monthly water budget program for automatically adjusting the controller's overall watering time to the user's preset schedule throughout the season. Controller shall have a "password" option to restrict programming access to authorized users. Controller shall be convertible to respond to the Toro® brand Sentinel™ central control system. Controller shall have the option for control of a 2nd master valve. Controller face panel/electronics shall be backward compatible to the previous MC Plus-B controller cabinet for upgrades in the field.

Construction: Controller shall be enclosed, rust resistant, locking steel cabinet. Quick disconnect cables to the terminal strip shall be standard on 18 to 48-station models. Optional pedestal mounts shall be available (P-2B: for 4 to 12-station models; P-6B: 18 to 48-station models).

Electric: Transformer input shall be 120V ac, 60Hz. Transformer output shall be 24V ac, 2.08 amps. Maximum output per station shall be 24V ac, 1.24 amps. Maximum operating output to valves shall be 24V ac, 1.80 amps (including master valve). Controller shall have optimum 2-stage primary and secondary surge protection.