



IBOC Plus Series Controller

Bidding Specifications

Automatic Controller(s) shall be IBOC Plus Series with stations (4, 8, or 12) as manufactured under the brand name of Irritrol Systems to be installed or wired in accordance with manufacturer's published instructions. Valves installed must be converted from standard AC solenoid to 24-volt DC latching solenoid (E2003) for Irritrol Systems valves.

Operation: Controller shall be powered by one 6-volt lantern battery or solar powered with optional SPC-2. Battery life shall be a minimum of 1 year. Battery life shall be displayed as a percentage of total life. Controller shall have 3 independent programs with 8 start times per program. Controller shall be able to operate up to 12 standard latching solenoid valves (1 solenoid per station) and 1 master valve/pump start latching relay. Station times shall be 1 minute to 23 hours 59 minutes, in 1-minute increments, displayed as hours and minutes. Controller shall have a 365-day calendar with weekday, interval (1-62), and odd/even scheduling with automatic leap-year adjustment. Controller shall have the capability to exclude specific days from the watering schedule when using odd/even day option. Controller shall have water budgeting (10-200%), start-time stacking within program, program looping and station stacking. Controller shall have programmable (1-10 minutes) test cycle. Operation will be automatic, semi-automatic and manual operation modes. Manual cycle shall be programmable from 1 to 99 minutes. Controller shall have non-volatile memory to retain program data and programmable rain off (1-30 days). Controller shall have programmable rain sensor hook up and programmable master valve hook up. Electronic circuit breaker shall automatically detect short- and open-circuit conditions on station output. Controller shall have user selectable instruction displayed in either English or Spanish. Maximum operating pressure shall be 120 psi (8,2 bar).

Controller to Valves

<u>Wire size (Awg)</u>	<u>20</u>	<u>18</u>	<u>16</u>	<u>14</u>	<u>12</u>
<u>Distance (Ft)</u>	400	600	1000	1600	2400
<u>Wire size (mm)</u>	,5	,8	1,5	2,5	3,5
<u>Distance (m)</u>	120	180	300	480	720

Construction: Controller shall be enclosed in rust-resistant, locking steel cabinet with sufficient space for standard 6-volt lantern battery and quick wire disconnect terminal board.

Electric: Input shall be 6/24 V dc. Output and master valve circuit shall be a bi-directional pulse to drive a 24-volt latching solenoid. Maximum of one 24 V dc latching solenoid per station.