

Smart Dial Controller

Bidding Specifications

Automatic Controller(s) shall be the Smart Dial series with (6, 9 or 12) stations in indoor (INT) or outdoor (EXT) model(s) as manufactured under the brand name of Irritrol Systems to be installed or wired in accordance with manufacturer's published instructions and applicable local codes.

Operation: Controller shall have the capability of receiving daily downloads of local, weather related data from an orbiting satellite and shall have the WeatherTRAK® capability of automatically reprogramming its irrigation schedule to closely parallel the changes in the local weather and Evapotranspiration Rate. The downloaded data shall be supplied through the, for fee, subscription service of ET Everywhere™ as supplied by Hydro Point Data Systems. Controller shall have automatic, semiautomatic and manual operation and shall provide a programming interface consisting of a large, 3-line display, a rotary dial, two knobs and a "Copy" button for ease of programming. Controller shall allow the programmer to enter data for each station (zone) to include: type of watering device, soil type, plant type, solar aspect and slope factor with default and/or adjustable custom settings for each of the site specific values. Controller shall provide the feature of adjustable settings for manual watering of single or multiple stations, station watering time adjustments in 1-minute increments up to 99 minutes as well as time adjustments by percentages, active water day adjustments by week day (7-day calendar) by month, Odd/Even date or day interval between water days from 1 day (every day watering) up to once every 30 days. Controller shall provide a method for establishing a watering time window in which the irrigation cycles shall automatically occur, to avoid irrigation operations crossing into watering restricted time. Controller shall have a non-volatile memory to maintain the program memory in the absence of A.C. power and shall have alert functions for short circuit detection and programming conflicts. Controller shall be compatible with normally closed rain sensors and shall provide screw-terminal connections for two sensor wires and shall provide a sensor bypass switch. Controller shall provide a program review mode, a feature for cycling irrigation and then allowing a "soak in" before another application, a "Help" feature for assisting in programming, a master valve/pump start circuit, a "stacking" function for sequential operation of overlapping programs, a protection system to reduce the risk of damage from electrical surges through input or output lines

Construction: Outdoor models shall be enclosed in UV and weather-resistant, locking cabinets with built-in transformers. Indoor models shall be enclosed in durable cabinets with external, plug-in type transformers.

Electrical: Transformer input shall be 120 V ac 60Hz. Maximum output per station shall be 24 V ac, 0.5 amp per station, 0.375 amps for master valve, 1.0 amps total (1.0 amp, 30 VA at 24 V ac, including 0.375 amps for the master valve /pump start.)

The controller model number _____ shall be manufactured by Irritrol.