

RainDial Plus Series Controllers

Bidding Specifications

Automatic Controller shall be Rain Dial RD Plus Series with stations (6, 9, or 12) in indoor (INT) or outdoor (EXT) model 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 automatic, semi-automatic and manual operation. Controller shall have 365-day calendar, including "weekday", "skip days", or "odd/even day" watering schedule. The controller shall have 3 independent programs that run concurrently. Programs shall have 3 start times per program, for up to 9 daily start times. Watering times shall be from 1 to 59 minutes in 1-minute increments or 1 to 5.9 hours in .1 hour increments. The controller shall have non-volatile memory capability to maintain programs during power failure. Battery back up shall be provided to keep current time and date. Battery will be included with controller. Controller shall have the capability of remote/battery programming. Controller shall have manual operation that starts either a program cycle or runs a single station for an adjustable period of time. Controller shall have water budgeting feature allowing for watering time to be adjusted from 0% to 200%. Controller shall have self-diagnostic electronic circuit breaker with valve-short circuit detection that identifies and overrides an electrical malfunction. Controller shall be compatible with an optional remote control system under the same brand name. Controller shall have two terminals for wire connection to a rain or soil moisture sensor system and shall have a sensor bypass switch. All programming shall be accomplished by use of a simple program dial and selection buttons with a large LCD for ease of programming. Controller shall have modular design/enclosed electronics. Controller shall have multi-language display capabilities (English, Spanish, French, German and Italian). Controller shall be UL, CUL and CE listed.

Construction: Outdoor models shall be enclosed in a weather-resistant, locking case with built-in 24-volt transformer. Indoor models shall be enclosed in a durable, plastic case with 24-volt plug-in transformer. A pump start master valve circuit shall be standard.

Electric: Transformer input shall be 120 V ac, 60Hz (220/240 V ac, 50Hz). Maximum output per station shall be 24 V ac, 0.5 amp. Maximum total output to valves shall be 24 V ac, 1.0 amp (including master valve). Controller shall have a self-diagnostic electronic circuit breaker with valve "short" detection that identifies and overrides an electrical malfunction of a valve. Controller shall have an electrical surge protection system to resist damage from power surges and electrical storms. Controller shall have a metallic shield to resist electromagnetic interference.