

Integrated Control System™ Rotors and Valves

Now, Integrated Control Technology™ built into the rotor and valve for easy streamlined control. The new Rain Bird IC™ System connects central control directly to the rotor or valve. No field controllers, decoders, secondary wiring or unnecessary splices. Reducing many of the areas that can breakdown, wear out or malfunction.

Features and Benefits

- Simple to Install – Requires up to 90% less wire than traditional satellite control systems and 50% fewer splices than a traditional decoder system.
- Cost Savings – Fewer splices and less wire requires less time and effort to install the system.
- System Database Management – The Integrated Control Module (ICM) offers tear off bar codes and an easy to use scanner to simplify the creation of the central control system database for quick operation. As soon as the wire path is connected to the computer, you can turn on the sprinklers and valves.
- Reliable Control – The IC System is a simple yet sophisticated controller/rotor/valve system built around a new generation of Rain Bird's proven solenoid and satellite technology. Simplicity results in reliability.
- Easier to Design – The IC System is easier to design—only simple calculations are required. It eliminates an array of troublesome considerations—there are no satellite controllers to design around or conceal.
- Easier Maintenance – The IC System is capable of intelligent two-way communication with each and every ICM on the golf course. Almost all troubleshooting can be managed through intuitive diagnostics built into the central



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- control software. The learning curve for maintenance is minimal. Course technicians can easily accomplish most maintenance tasks. The ICM is easily removed and can be replaced if necessary.
- Dependable – The IC System is designed to always turn off if problems occur. When the wire path is damaged or cut, or if central control communication is lost, the ICM is designed to turn off automatically.
- True "Below 30 Volt Control System" – As the IC System wire path output is 26.5 Volt, the IC System is a "true less than 30 Volt control system." A lower than 30 Volt system is considered a low voltage system and is typically not subjected to code requirements regarding deep burial of the wire path.
- Below Ground Control – Since the ICM is built right into the rotor or valve, the entire control system is below ground. Unlike

field controller systems, the below ground system offers protection against damage from vandalism, flooding, and insects.

- Golf Course Aesthetics – Since the IC System control is designed to be entirely below ground, the golf course vistas are clear of irrigation components as envisioned by the golf course designer.
- The IC System allows the full benefits of Rain Bird central control systems including: ET-based scheduling, customized course graphics, multiple mapping options, and the ability to "see" the placement and operation of individual rotors.
- Central Control "Smart Features" – With the IC Series System, you have the ability to utilize all of Rain Bird's central control "Smart Features" including: Rain Watch, Minimum ET, Smart Weather, SmartPump™, and Superior Monitoring of system operation.



Specifications

- System Capacity*: 750 ICMs per Output Wire Path, 1500 ICMs per Output Driver Board, 3000 ICMs Per IC Interface (ICI)
 - * Specific System Capacity is dependent on the Central Control System
- ICI Electrical Input: 100 VAC Nominal 91-110 VAC @ 60 HZ +/- 2 HZ, 115 VAC Nominal 98-132 VAC, 220-240 VAC Nominal 208-255 VAC
- Electrical Output: 26.5 VAC, 1.25 AMP Per Wire Path
- Active Stations: No electrical limit - only limited by hydraulics of pipe network and size of pump station
- ICM Current Requirements: Varies based on wire path length - Nominal Current Draw is .33 mA on 5000' (1500 meters) of wire
- Grounding Requirements: ICSD to be grounded at less than 45 Ohms every 500 feet (150 meters) or 15 ICMs whichever is less. The Central Control is to be grounded with less than 5 Ohms of resistance
- Compliance: CE, FCC
- Environment: Working Range - 32 degrees F to 122 degrees F (0-50 C), Storage Temperature - -40 degrees F to 150 degrees F (-40 - 65 C), Operating and Storage Humidity - 100%
- Dimensions: ICM - 2.23 inches X 1.70 inches (57 mm X 43 mm), ICSD - 2.00 inches X 1.41 inches (51 mm X 43 mm)
- Compatibility: Rain Bird EAGLE™ 500, 700 and 900 Series Rotors** and Rain Bird PES-B, PEB, PGA, EFB, and BPE Electric Valves with ICM Adapter
 - ** Note EAGLE Rotors sold before 6/2009 will have a random orientation of the ICM relative to the Selector Housing
- Maximum Wire Paths: 2 Outputs per IC Driver Board and Up to 4 total per ICI and Multiple Branches Per Wirepath

How to Specify/Order ICM Rotors*

XXX	-	ICM	-	XX	-	XX	-	XXX(X)
Model		Body		Nozzle		Pressure Regulator		Thread Type
500		ICM		Please		60 (4,1)		(ACME only)
550				see nozzle		70 (4,8)		
700				charts for		80 (5,5)		
750				each rotor				
900								
950								

How to Specify/Order Valves*

XXX	-	XXX(X)(X)	-	ICM
Size		Model		Optional Feature
100		PESB		ICM
125		PESB-R		
150		EFB-CP		
200		BPE		
300		BPES		

* For exact combinations of Rotors (Nozzles & Pressure Regulator) and Valves (Size), Please refer to the Catalog for the Model

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