

**TORO**

Count on it.

# IBOC Plus Series

## Micro-Irrigation



### Application:

The IBOC Plus family of battery-operated hybrid controllers offers unique solar and solar/battery-powered options to provide full power for up to 20 days without sun. For added reliability, IBOC Plus includes non-volatile memory and enhanced lightning protection for dependable performance. All these features make the IBOC Plus controller ideal for remote agricultural, commercial and industrial installations.

### 4, 8 and 12 station outdoor models

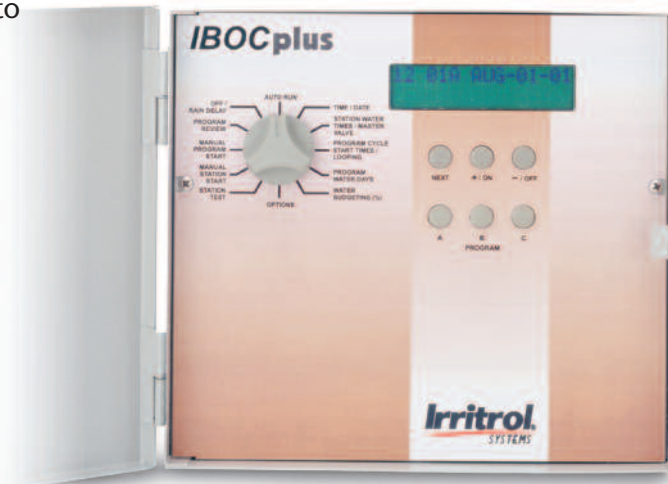
#### Features:

##### Flexible Programming

- Three independent programs offer concurrent operation capability
- Odd/even day calendar with day exclusion; seven-day calendar; or one to 62 skip days
- Station water times in one-minute to 23-hour-and-59-minute increments
- Eight start times per program for up to 24 daily start times

##### Easy Operation

- 6 VDC-powered, solar-powered or combined battery/solar-powered
- Solar-powered converter can be mounted up to 1,000 feet from IBOC Plus (A-SPC-2 option)
- Non-volatile memory retains all program data (and real time for 10 minutes)
- Programmable "Rain Delay" postpones automatic operation for up to 31 days
- Large, easy-to-read LCD displays English or Spanish
- One- to 10-minute programmable test cycle
- Selectable, programmable master valve
- 365-day calendar with automatic leap year adjustment



# IBOC Plus Series

## Quality Enhancements

- Start-time stacking within each program
- Enhanced lightning protection
- Water budgeting from 10-200%
- Electronic circuit breaker detection for open and shorted conditions

## Electrical Specifications

- Powered by one six-volt alkaline battery or one A-SPC-2 (solar-powered converter)
- Output: 24 VDC latching
- Master valve output per program
- Installed Irritrol Systems, Hardie and Richdel valves must be converted from AC with 24 VDC latching solenoids (E2002)
- Max. operating pressure: 120 psi

### Controllers to Valves

Wire size (Awg)	20	18	16	14	12
Distance (ft.)	400	600	1000	1600	2400

## Solar Option

- Simple, hassle-free mounting on top of any IBOC Plus controller model or mounted up to 1,000 feet from the controller
- Maintenance-free gel cell battery: three-year life
- Solar to load ratio: 6-to-1 (provides full power to IBOC Plus for up to 20 days without sun)
- Output: 25-27 VDC/50mA
- Solar amp/hrs. per day: 600mA, typical
- Load amp/hrs. per day: 100mA, typical
- Operating temperature: -30°C (-22°F) to +60°C (140°F)
- Storage temperature: -40°C (-40°F) to +80°C (176°F) Solar Power Converter Remote Mounting Wire Sizing Wire Size (Awg) 20 18 16 Distance (Ft.) 200 500 1000

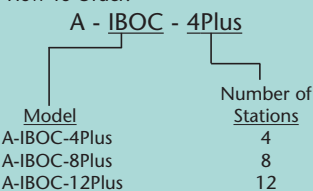
### Solar Power Converter

#### Remote Mounting Wire Sizing

Wire size (Awg)	20	18	16
Distance (ft.)	200	500	1000

### Example:

How To Order:



NOTE: The A-SPC-2 option must be purchased separately

## Dimensions

<i>IBOC Plus</i>	<i>A-SPC-2</i>
Height: 9 1/4"	Height: 4 9/16"
Width: 10 3/4"	Width: 10 3/8"
Depth: 5 1/4"	Depth: 3 3/8"

## Optional Accessories

- Solar converter (A-SPC-2; includes batteries)
- Pedestal mount (A-P-2B: all station models)

