

Multi-function Irrigation Controller

BIC 1000 AC or DC

BERMAD BIC 1000 is an innovative, time based, user friendly controller that offers a full range of features for complete control of agriculture irrigation, fertigation and filtration applications.

The BERMAD BIC 1000 controller incorporates an easy, intuitive programming interface with a modular hardware configuration that allows up to 36 outputs and is available in AC or DC models.

BIC 1000 AC is Cloud enabled for cellular remote control, when using the optional modem.

BIC 1000 DC is Radio enabled for wireless control of valves.

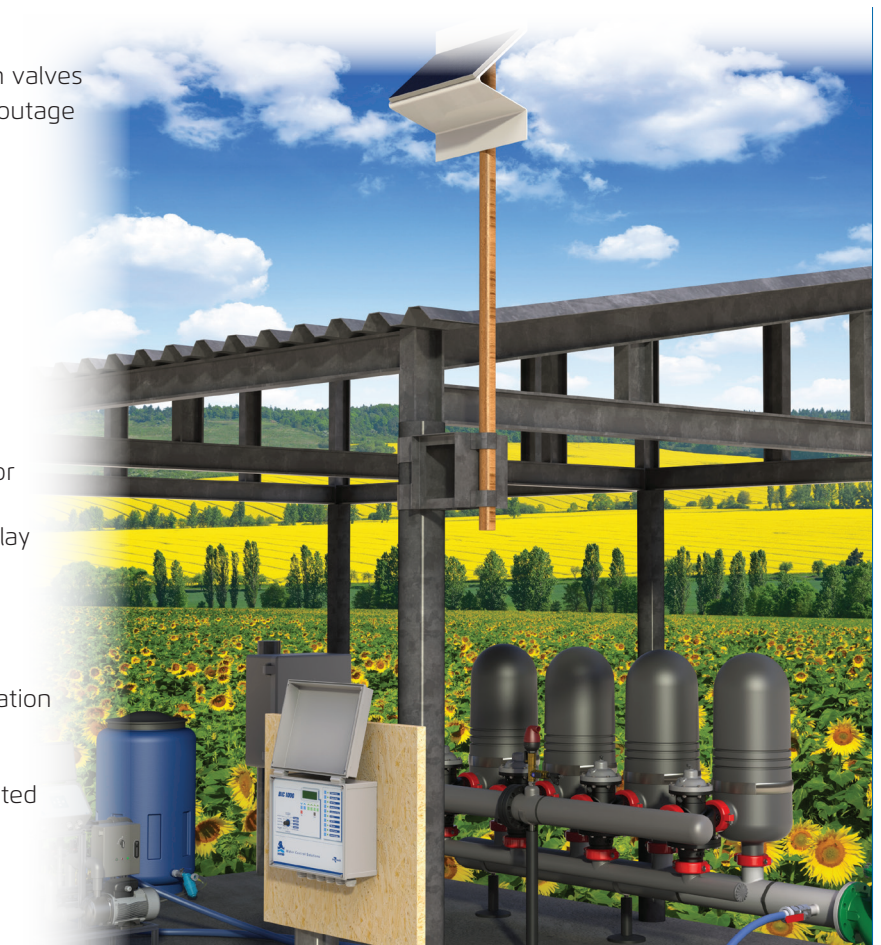


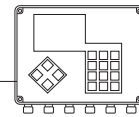
Features and Benefits

- **Modular hardware** – Versatile and flexible adaptation to the farmer's needs
- **Hydraulic system protection**
 - Overlapping or delayed valve switching
 - Main valve operation control; delayed, advanced, or together with the irrigation valves
 - Adjustable power up delay after power outage for pump protection
 - High pressure alert
- **Versatile irrigation programs**
 - Four programs for unlimited number of valves or groups per program
 - Independent water and fertilizer run times per each valve
 - Each program can be configured for pulse irrigation
 - Frost protection, Cooling procedure or any other program started by a sensor
 - Seasonal adjustable water run-time per program (0-250%) and unlimited rain delay
- **Built in Fertilizer injection control** – Efficient chemicals implementation for increased yields, and profitability
- **Filtration control** – Improves water quality to protect the irrigation system and water conservation
- **User interface** - Program status review & password protected configuration screens
- **Remote monitoring and Control of the Irrigation System (AC only)**

Typical Applications

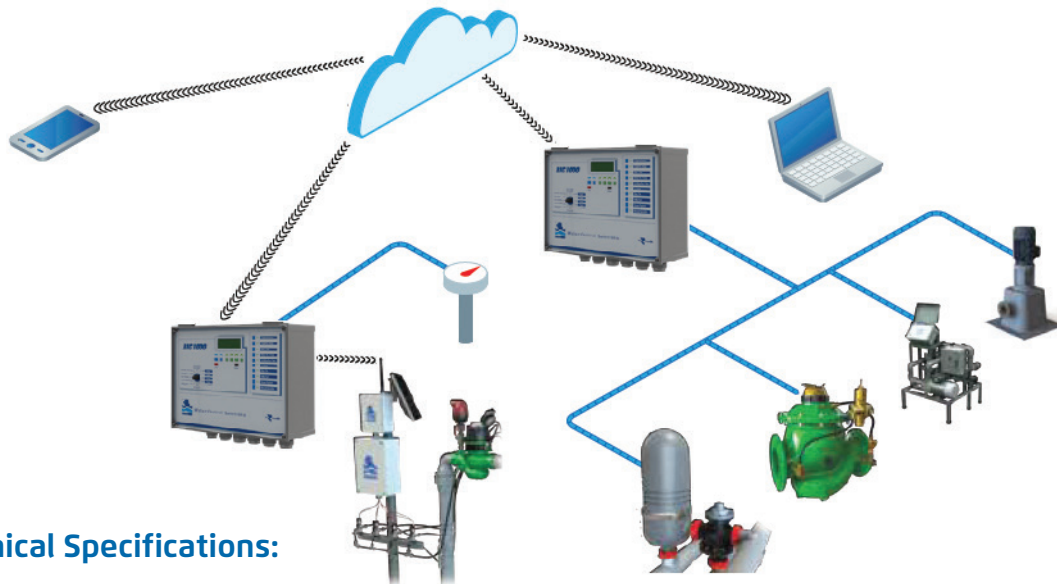
- Professional time based irrigation control of small to medium fields
- Crops in single open field, trees, mesh houses, and greenhouse
- Filter flush controller up-to 36 filters with optional individual flush time per filter
- Irrigation control of up to 36 zones in the AC model and 32 in the DC model





Communication and Connectivity:

- DC Model - Built-in Radio Interface for 2-Way wireless communication with remote valves
- AC Model - Uniliner Two-wire single cable or Radio Interface for 2-Way communication with remote valves
Cellular Communication using Spot Website



Technical Specifications:

- Enclosure Construction Material:
 - UV Resistant ABSn
- Temperatures:
 - Ambient: (-17) to 60°C; (-4) to 140°F
 - Storage: (-30) to 70°C; (-22) to 158°F
- Protection Rating: IP67; NEMA 4X
- Dimensions:
 - Length: 400 mm; 15¾ inch
 - Height: 300 mm; 11¹³/₁₆ inch
 - Width: 180 mm; 7³/₁₆ inch
- Weight: 6 Kg; 16.2 lbs

Configuration Options

Parameter	Type	Accessories	BIC 1000			
			DC Model	AC Model	RF	2 Wires
Form of irrigation	Time		✓	✓	✓	✓
	SMART Control	Sensor	✓	✓	✓	✓
Type of outputs	AC			✓	✓	✓
	DC Latch	Radio			✓	
		Two-Wire				✓
Type of inputs	Local	Controller Direct	✓			
		Dry contact	✓	✓	✓	✓
	Remote	Analog (DP Gauge)		✓		
Power Source	110VAC / 220VAC	Dry contact	✓		✓	✓
	Rechargeable 12VDC, battery	With 9V alkaline back-up battery	✓	✓		
Cloud Control		20W solar panel				
Communication	Cellular			✓		
Number of outputs			16-32	12-36	12-32	12-32
Number of inputs			4	4	4	4

