

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 with built-in optional Radio RTUs.

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



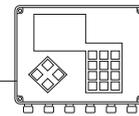
Features and Benefits

- **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

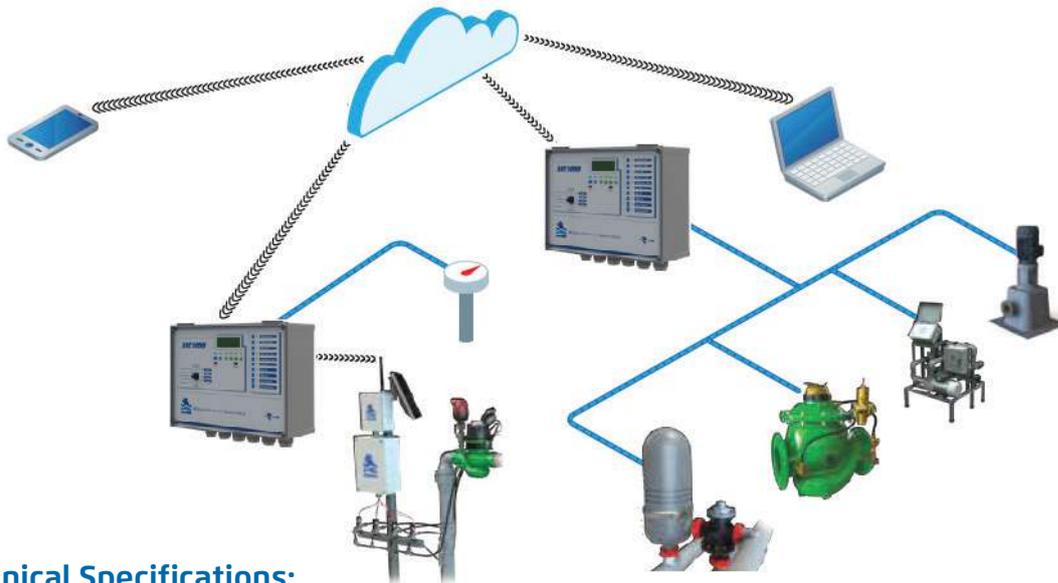
- Professional time based irrigation control of small to medium fields
- Crops in single open field, trees, mesh houses, and greenhouse
- Filter flush controller up-to 36 filters with optional individual flush time per filter
- Irrigation control of up to 36 zones in the AC model and 32 in the DC model





Communication and Connectivity:

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



Technical Specifications:

- Construction Materials: UV Resistant ABS
- Temperatures: Ambient:
 - (-17) to 60°C; (-4) to 140°F
 - Storage: (-30) to 70°C; (-22) to 158°F
- Protection Rating: IP67; NEMA X4
- 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			✓	
		Tow-Wire				✓
Type of inputs	Local	Controller Direct	✓			
		Dry contact	✓	✓	✓	✓
	Remote	Analog (DP Gauge)		✓		✓
Power Source	110VAC / 220VAC	With 9V alkaline back-up battery	✓	✓		
	Rechargeable 12VDC, 7Ah battery	20W solar panel	✓			
	Radio				✓	
Cloud Control				✓		
Communication	Cellular			✓		
Number of outputs			16-32	12-36	12-32	12-32
Number of inputs			4	4	4	4

