

BERMAD Irrigation

Fertilizer injection

Smart Fertilizer Injection Pump

Smart Pump

Bermad Smart Fertilizer Pump provides a perfect solution high accuracy, homogeneous and stable injection are required. The Bermad Smart Pump maintain the set injection rate regardless of line pressure fluctuation. The Smart Pump can also adjust the injection rate proportionally to the flow of the irrigation line.

Features and Benefits

- Two Operation Modes:
 - Slave- Controlled by Bermad BIC series irrigation controller.
 - Stand alone mode- executes predefined injection programs.
- Software adjustable injection flow rate can be set to a value between the minimal and maximal capacity.
- Maintaining the set flow rate within a range of $\pm 5\%$ of the set-point including compensation for pressure variations of ± 29 PSI.
- Reporting supplied volumes by dry contact pulses, with adjustable ratio, and with symmetric duty cycle.
- Simple and easy calibration.
- User defined - Injection volume, desired flow, water before, continuous or proportional injection.
- Recording injected volume.
- Detecting air in the injection line and automatic air releasing.
- User defined alarm events including:
 - No fertilizer
 - Air in pipeline
 - Blocked line
 - Short circuit
 - Low battery
 - Water high/low flow
 - Out of control
- Suitable for various corrosive materials.
- Real time detailed status display.



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Technical Specifications

Pressure range - 0-100 PSI

Flow range - 1.8-0.96 GPM

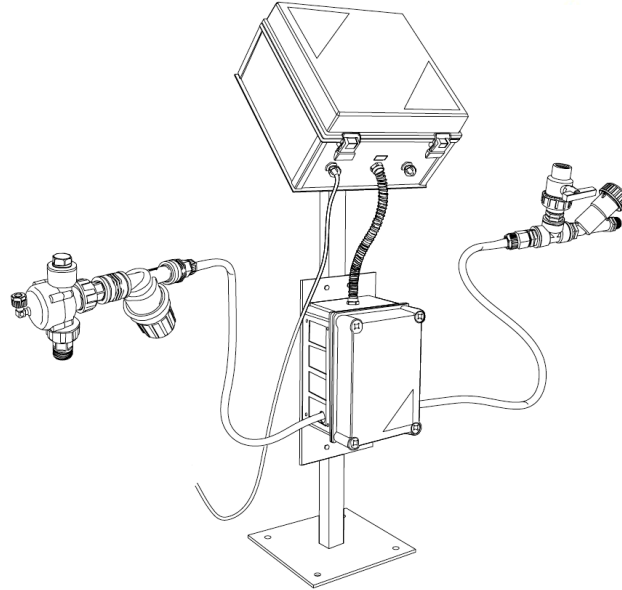
Voltage- 12v DC

Maximum Current- 10 A

Charging – Solar panel or from the mains

Input Command- 24v AC or 12V DC

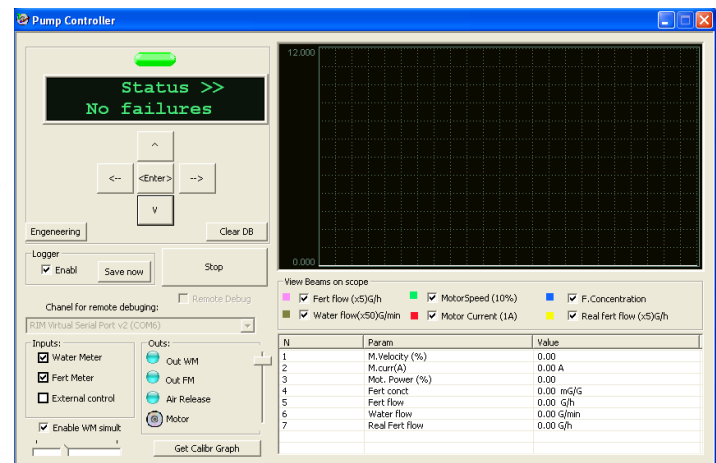
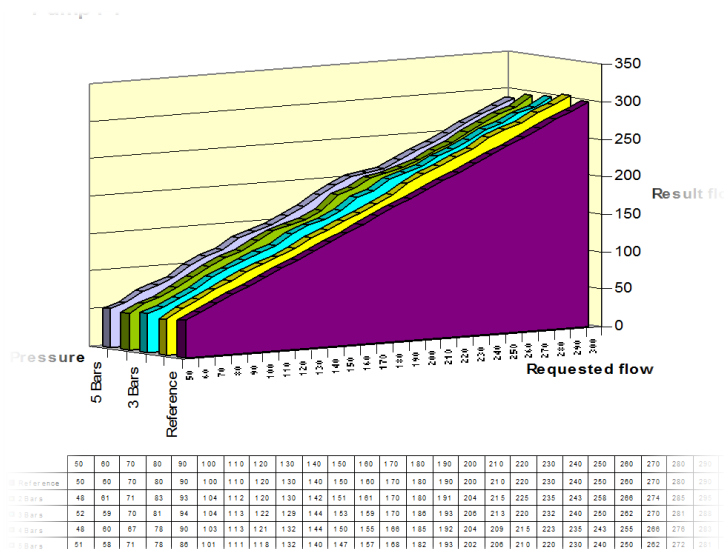
Fertilizer meter - Not required



Special features

Special mode of VARIABLE FLOW continuously adjusts the injection rate to the varying demand, making sure that the desired amount of fertilizer is evenly distributed even when the water flow or the desired concentration are changing during the process.

Special monitoring software enables following the behavior of the various parameters in a graphical and numeric modes. The PC software can be used as a simulation software for demonstration and training purposes.



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