



IRRIGATION CONTROLLER

Model Omega R

Omega R is part of BERMAD's advanced cloud-based irrigation controllers' series.

Omega R is a standalone battery-operated controller, designed specifically to provide user-friendly and cost-effective solution for small farms for irrigation scheduling, water meters reading and monitoring of various parameters.

Omega R offers an online remote access to your field through BERMAD Cloud Web access and Smartphone App.



- [1] BERMAD Model OMEGA R - Smart Irrigation Controller
- [2] Combination Air Valve Model C30
- [3] Hydrometer Model IR-900-M0-Magnetic Drive
- [4] Pressure Reducing Valve Model IR-120-50-XZ
- [5] Combination Air Valve Model C10

Features & Benefits

- Advanced Irrigation Controller
 - DC latch valve operation. Batteries or solar panel charged.
 - Quick and simple installation and configuration.
 - Fertigation by volume, irrigation by triggers.
- Advanced Cloud Application
 - Remote and real-time irrigation operation.
 - Secured end-to-end cellular communication.
 - Real-Time alert notification high & low flow, leak, and clog alert.
 - Intuitive user experience
- Integrated Solution
 - A full hydrant including the valve, water meter, solenoid and control.

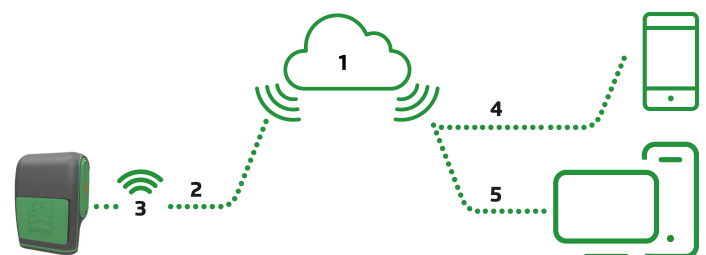
Typical Applications

- Professional volumetric and time based irrigation control.
- Open fields, orchards, vineyards, greenhouses and landscape.
- Dedicated tasks like tank level control, dosing unit operation, remote monitoring.
- Water supply management systems for water districts and irrigation consortiums.

Operation Modes:

- General operation concept
 - The Omega controller is connected through cellular to Bermad cloud
 - Real time mode – the Omega communicate with the cloud consecutively
 - Power saving mode – the Omega synchronizes with the cloud according to a pre-defined schedule.*
- Built in 4G Modem with 2G fallback Supports NB-IoT, CAT-M & GPRS communication protocols
 - Global Data sim card for worldwide plug-and-play internet connectivity
 - BLE access for a technician mode

**All irrigation schedule, reports and alarms are autonomously operated regardless cloud communication*



Num	Description
1	Secured Internet
2	Cellular
3	NB-IoT, CAT-M, GPRS
4	Smartphone App
5	Management Software



Controller Features

Volumetric and Time based Irrigation

- 16 programs with up-to 16 sequential valve operations each
 - Weekly or Cyclic irrigation scheduling
 - 4 programmable start times or cyclic irrigation windows
 - Widespread valve run time range: 10 seconds – 4 days

Integral data logger with more than 150K records, enables comprehensive log registry that can cover long periods of offline operation

Power source:

- 4 LR14 (C Size) Alkaline batteries for operation in Offline mode
- 9-18VDC external power input for Online mode operation (solar panel, grid power, etc.)

Periodic over the air firmware upgrades (FOTA)

Outdoor Installation: IP65 rated with UV protection

Standard Compliance: CE & FCC.

Industrial grade Electronic components: -35°C to 75°C

BERMAD Cloud Features

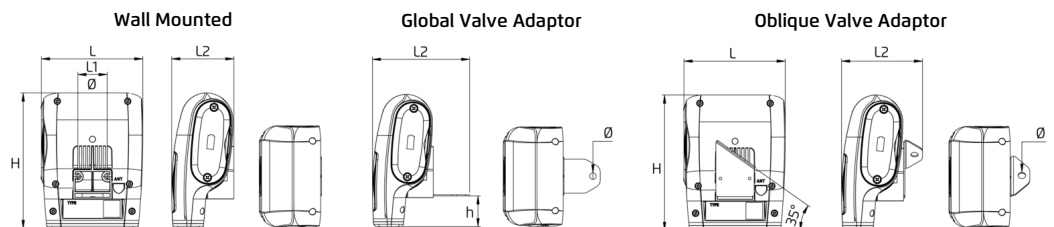
- Password protected login:**
 - 2 factor authenticator login
 - Protected multi-user access
 - Different access level authorization
- Global Account management:**
 - Language and time zone selection
 - Unit support (Metric, Imperial)
- Dynamic dashboard:**
 - Geo-referenced map with site and device view
 - Real time status of Omega controllers
 - Up-to-date water budget usage
 - Intuitive unit management tools
 - Setup, configuration and programming through wizards
 - Manual operation

- Alert control:**
 - Alert status log and email notification
 - Controller reaction to each type of alert
- Log information:**
 - System state, operation events & alerts
 - Periodic sensor data acquisition
 - Watermeter accumulations
 - Analogue sensor data
- Report generator:**
 - Personalized reports for operation and traceability
 - Export to Excel and PDF
- Smartphone App:**
 - Unit setup and configuration
 - Irrigation programing and manual operation

Technical Data

Technical Specifications

For other Adaptors, Please refer to [BERMAD](#) full engineering page.



Model	Adaptor	Weight (Kg)	L (mm)	L1 (mm)	L2 (mm)	H (mm)	h (mm)	Ø (mm)	I/O Outputs Latch	I/O Inputs Digital	I/O Inputs Analog	Cellular	Bluetooth
Omega R	Wall monuted	1.23	121	35	74	161	-	5	4	4	2	Setup & Operation	Technician Mode
Omega R	Globe	1.23	121	-	118	161	37	8	4	4	2	Setup & Operation	Technician Mode
Omega R	Oblique	1.23	121	-	97	161	-	8	4	4	2	Setup & Operation	Technician Mode

*Adaptors are available for Globe and Oblique valves