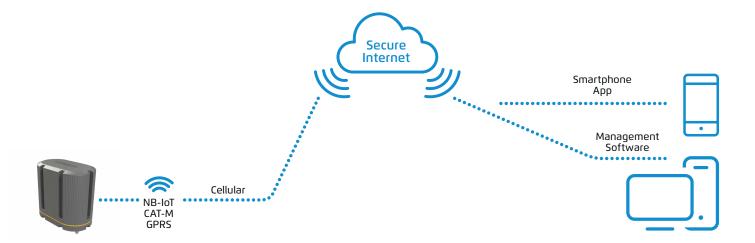


The **EPSILON-C** is a fully remote controlled battery operated controller. The **EPSILON-C** logs the data and uses cyber secured technology to transmit the data to a user-friendly cloud platform.





# **REAL-TIME CONTROL ANYWHERE ANYTIME**



### Features and Benefits

- 5 years internal battery operated or external power
- Large capacity data logging
- Full communication to Bermad cloud or to other platforms via API or FTP for monitoring and remote setting
- Intuitive and user friendly platform
- Advanced modern graphs and reports
- Alert and notifications via Mail
- Build-in 2 internal pressure sensors with accuracy of +/-0.5%

## **Applications**

- 2 pressure regimes by switching between "Low" to "High" set points according to flow rate or time windows (Day/Night)
- Monitoring and data logger using both digital and analog inputs:
  - Pressure sensors:
    - **a**. In critical points of the DMA for pressure management
    - **b.** For valves' operation and performance monitoring
  - Water meters for counting flow rate, accumulated volume and make easier water balance calculation

#### **BERMAD EPSILON Series**

MODEL	Inputs	Outputs	Internal	Communication	
	Digital	Digital	pressure sensors	Cellular	Bluetooth
E4	1	2	✓	✓	✓



# **Technical Specifications**

#### Main features:

- Local Inputs & Outputs:
  - 1 digital input for metering and discrete sensors
  - 2 Latch outputs (16V DC; 100 mS pulse) for Day/Night control or fully open the valve by venting the valve chamber.
- Sensors calibration for all physical units
- Interna
  - 2 accurate internal pressure sensors +/- 0.5%

#### Connectivity:

- Built in 4G Modem with 2G fallback
  - Global data sim card for worldwide plug-and-play internet connectivity
  - Supports GPRS, 4G communication
- Bluetooth communication for technician mode tasks

#### Operation modes:

- Online mode: 24/7 connection between controller and cloud (require external power source)
- Offline mode:
  - Autonomous control operation, predefined cloud communication and real time alerts
  - Designed for power saving when using internal battery

#### Power source:

- Lithium battery for operation in offline mode
- 9-16VDC external power input for online mode operation (solar panel, grid power, etc.)

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

Periodic over the air firmware upgrades (FOTA)

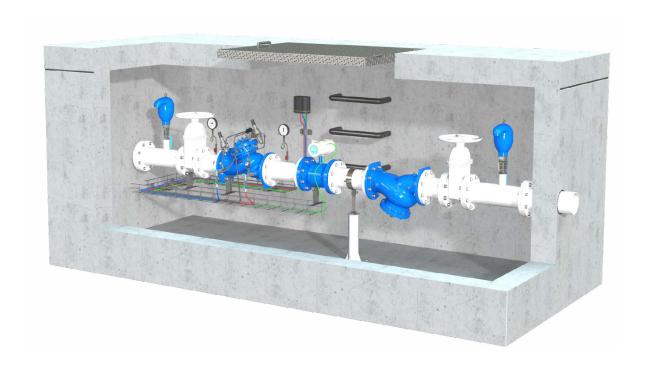
Outdoor installation: IP68 rated with UV protection

Standard compliance: CE & FCC

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

**Push type connectors** for quick and easy wiring without

need for special tools





## **BERMAD Cloud**

#### BERMAD Cloud offers web-based internet access to your control & monitoring management system:

- Global management of all your EPSILON controllers
- User friendly and intuitive control features
- Real time status and monitoring

### **BERMAD Cloud Features:**

#### Cyber protected login:

- Multi-user connectivity for enhanced management and technical support
- Individual access level authorization (Edit settings, Read only)

#### Global Account management:

- Language and time zone selection
- User privileges
- Unit selection (Metric, Imperial)

#### Dynamic dashboard:

- Geo-referenced map with global view of your monitor and control management project
  - Current status of EPSILON controllers
  - Up-to-date sensors data
- Quick access to the EPSILON management tools
  - Setup and programming
  - Wizard for guided unit config

#### Alert control:

- Alert status log and Mail notification
- Alert management tools:
  - Thresholds of several levels for each of the measured values
  - Alert notifications per user level of authorization and position

#### Log information:

- System state, operation events & alerts
- Periodic sensor data acquisition
  - Watermeter flow & accumulations
  - Pressures
  - Analogue sensor data
  - Battery voltage level

#### Report generator:

- Personalized reports for operation and traceability
- Export to Excel file





# Dimensions

