

IIoT

# EZEIO SYSTEM

Connecting you and your sensors via the internet to remotely  
**Monitor, Control, Record & Alarm**



**OneTemp**<sup>o</sup> pty Ltd  
measure | control | record





# EZEIO SOFTWARE

The ezeio cloud software is a powerful solution to configure & automate hardware deployed to control your sensors from an online platform. The user interface allows you to remotely manage your system including;

- Account & Configuration Management
- Scripting Editor
- Dashboards & Live Status'
- Alarms & Notifications
- Timers & Schedules
- Mapping & Geofencing

## 01 CREATE ANY NUMBERS OF ACCOUNTS & GROUPS

A powerful managerial tool that allows you to structure your system by location, type of equipment or business unit.

## 02 MANAGE ACCESS & PERMISSIONS FOR EACH USER

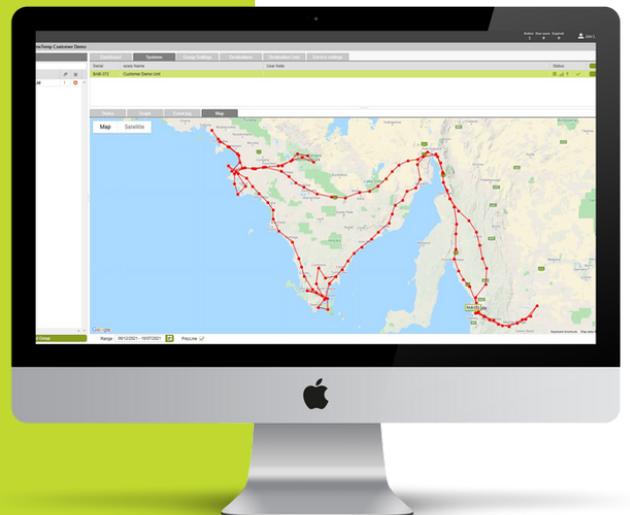
Create and manage specific access restrictions from view only access through to specific assignment permissions and full administrator rights.

## 03 CUSTOMISABLE DASHBOARD & WIDGETS

Create predefined widgets to display your data visually varying from simple dials through to graphs and power applications of just your sensors or your entire system.

## 04 CONFIGURE YOUR SYSTEM

Control each ezeio system deployed from simple settings to complex scripting, including; system status overview, alarms & notifications, timers, schedules, calendars, device overview and more.



# EZEIO HARDWARE SPECIFICATIONS

## Hardware models

- LTE-CAT-M1 (5G IoT) + Ethernet
- 2G/3G + Ethernet

## Security

- Secure OTA sync & updates
- Fully encrypted, PKI & 128bit encryption

## Inputs/outputs

- 8 general purpose inputs (discrete, on pluggable terminal, fully configurable)
  - 0-10VDC (2.5mV resolution, >65kΩ input impedance)
  - 0-30mA (12.5uA resolution, 200Ω internal shunt)
  - 0-1MΩ resistance (<2% accuracy in the range 2k – 700kΩ)
  - Thermistor (100kΩ/10kΩ/2Ω types, internal excitation)
  - Dry switch (on/off, optional internal excitation)
  - Pulse (SO or KYZ, max. 400Hz, optional internal excitation, monitor pulse rate and/or pulse count/ frequency/interval)
  - Electronic configuration of pull-up / shunt
  - Protected with PTC
  - Internal 0.5% reference
  - 4 general purpose outputs (discrete, on pluggable terminal, fully configurable)
  - Output 1/2 - digital (on/off), sourcing max. 200mA each
  - Output 3 - PWM output or on/off output (sourcing max. 200mA)
  - Output 4 - analogue, 0-10V, 0.1V resolution (sourcing up to 10mA)

## Supports plug-in sidecar ezeio I/O expansion

(third-party I/O can be added via the communication ports)

## Supports up to 90 individual fields

## Schedules & Calendar

- 10-year calendar
- 30 daily schedules

## Modbus/TCP server & client (TP 10/100 Ethernet)

- Configurable port numbers (standard 502)

## SDI-12 port

- Supports v1.4
- Optional support for serial NMEA 0183 (GPS)

## Other hardware features

- SMA antenna connector (cellular)
- o +5V DC regulated output, max. 200mA
- PTC fused DC output, max. 200mA for sensors
- On-board RTC (24h supercap backup)
- 3 dual-color indicator LEDs
- Pushbutton for controlled start-up/reset

## Power supply

- 12-24V DC
- Standard 5.5/2.1mm plug in barrel connector
- Optionally powered through screw terminal
- 0.8W self-draw (average), 3W peak (short sub-second bursts)
- Hibernation mode, <0.06W (average)

## Dimension & weight

- W: 108mm (4.3in), H: 90mm (3.6in) (excl. connectors), D: 33mm (1.3in)
- Allow 50mm (2in) top & bottom for connectors & wiring
- 35mm DIN rail or screw mounted
- Weight: 0.150kg (5.3oz)

## On-board log buffer memory (non- volatile)

- Full system log data (>50 days @ 10 minutes logging & 90 fields)
- Large dynamic log data buffer, i.e.
- 10 fields, >30 days @ 10 seconds
- 50 fields, >30 days @ 1 minute
- >6,000 events/alarms/transactions
- All logs auto-uploaded to eze.io backend

## Modbus/RTU Master port (RS485)

- Up to 32 devices
- 1200 to 115200 bps

## CANbus

- Supports J1939
- Optionally used for I/O expansion

## Capabilities

- Up to 90 monitored fields
- Up to 300 alarms for local events,
- SMS, email, voice calls etc.
- Geo-fence features with GPS support
- Up to 2000 card/PIN codes

## Additional features

- Full remote configuration & management
- Live data access
- Automatic data synchronization with eze.io cloud
- Expression engine for field math & alarms
- Remote firmware upgrade
- Standard & custom driver support for industrial devices
- Powerful scripting support

## Others

- Operating Temperature
- -20 to 65°C
- Operating Humidity
- 5 to 95% (non-condensing)
- IP40 (use indoors/in electrical enclosure)

## Certifications

- FCC Part 15 B 15.017 & 15.109
- AS/NZS CISPR 32 (2015)
- EN 55032 (2012) +AC1
- EN 61000-3-2 (2014)
- EN 61000-3-3 (2013)
- EN 55024 (2019) +A1
- CCI-CISPR 32:2016 Class B
- CE
- RoHS 3