

rEye IoT Transmitter



A long-range wireless NB-IoT enabled transmitter to intelligently manage your water assets

The rEye IoT transmitter monitors water consumption throughout your property by tracking pulse water sub-meters. All data is automatically transferred to an e-dashboard for your property, which not only shows a breakdown in total water usage, but utilises artificial intelligent to predictively identify trends in your consumption. Operators are alerted to potential leaks or abnormal water use and can quickly address the problem area.

Features

Know your water consumption

Monitor real-time water consumption and trends on a user-friendly dashboard.

- Save man hours wasted collecting manual water readings
- Remove human error in data input and tracking
- Clear visibility on high water consuming facilities
- Historical data can be easily exported

Empowering decision making

Operators are actively prompted on potential problem areas.

- Push alerts via email and mobile application
- Problem area clearly highlighted with evidence for action

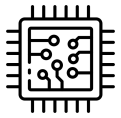
Proven history of reliability

The rEye IoT transmitter and dashboard are based on existing SpaceAge systems that have been deployed in public and private projects across Singapore.

- Hardware can be installed installed or outdoors (IP-67 rating)
- Past installations for industries such as Manufacturing, Dormitory, Hospitality, and Amusement Parks



Technical Specifications



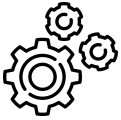
Hardware Specifications

- **Dimensions:** 9cm x 13cm x 4cm
- **Ingress Protection:** IP67 capable
- **Material:** Flame resistant ABS / ASA
- **Mounting Options:** Wall / pole / bracket
- **Operating Temperature:** -20 to +50 deg C



Power Options

- **1 x Lithium Thionyl Chloride Battery:** 3.6V, 1900mAh each, size 34615
- **External Supply Option:** 12 to 24Vdc stable power supply
- **Battery Modes:** Sleep, PSM (power save)



Input/Output Components

- **1 x RS485:** MODBUS RTU protocol (max 8 slaves, 15 registers/slave)
- **1 x RTD:** 2/ 3/ 4-wire (PT100/ 1000 sensor)
- **1 x Analog Input:** (Selectable) 4 to 20mA/ 0-10V/ 0-5V
- **2 x Digital Input:** Dry contact
- **1 x Digital Output:** Open drain
- **1 x In-Built GPS Sensor**
- **1 x Switchable Voltage Output:** From external power supply



Output Transmission

- **Wireless:**
 - **Cat M1/ Cat NB1:**
 - LTE FDD: B1/ B2/ B3/ B4/ B5/ B8/ B12/ B13/ B18/ B19/ B20/ B26/ B28
 - LTE TDD: B39 (for Cat M1 only)
 - **EGPRS:** 850/ 900/ 1800/ 1900 MHz
- **Output Power:** Max 23 dBm
- **Connects to:** NB-IoT/ LTE-M/ GPRS networks run by operators
- **Compliance:** FCE/ CE compliant modules
- **Protocol:** MQTT/ MQTTs (secure)

