

RTU is a device which transmit information / status of a remote system (e.g. Lift, alarm, door, temperature, water level, etc...) to a control center (or person's GSM phone) at distance away ●



Since this is a GSM-RTU, it needs no copper telephone line (fixed line / land line.)It needs only a GSM-SIM card and a power supply (6 v DC to 40V DC and 110-440 VAC) or solar panel charging a lithium ion battery. Hence, it is extremely easy to install in virtually any place which has GSM coverage.

RTU is an intelligent device which can alert you remotely via SMS in case of power failure, alarm be activated, water level too low / high, lift malfunction, temperature too low or high, door been opened, and anything you wish to monitor.

The RTU comes standard with lithium ion backup battery which will last 24-48 hours.

The RTU has active low sensor or active high sensor open collector driver 10A ST/DT relay. Number of sensor input and relay output can be custom made.

The RTU can be instructed to automatically report to the remote center at user specified time interval and the number of reports request. It can be send to multiple destinations which can accept GSM 05.07 SMS protocol (e.g. GSM modem or GSM hand phone)

RTC (real-time clock) is built in, so user can time stamp messages.

User can choose GPRS, 850/900/1800/1900 modem to be installed in the RTU.

We can provide a GSM switch / com server with multiple GSM number to handle incoming and outgoing SMSs, so user can communicate thru our GSM switch / server via application programming interface (API).

User are able to set up to 4 (HH, H, L, LL) custom threshold, these threshold value can be programmed OTA (Over the Air).

User are able to set a multiplier value and offset value so that the RTU is able to work and adept into to different type of water tank by just changing the multiplier value or offset value. The multiplier value and offset value can be programmed OTA (Over the Air).

An optional GPS module can be included if the position (in Lat/Lon) of the site is required.

Solar charging is optional. Custom design solar charger can be included to provide power supply in remote area.

**TECHNICAL SPECIFICATION**

**GENERAL**

RTU is a device using GSM900/1800 system to transmit information to another GSM device E.g. Hand phone when a sensor is trigger. And able to received instruction from a hand phone to turn ON/OFF or reset and certain device E.g. Alarm panel

**GSM**

**GSM Unit.**

- GSM 900 MHz (2 watt) Class 4
- GSM 1800 MHz (1Watt) Class 1

**Antenna**

- 50 Ohm External Antenna (FME Male Coaxial Connector) 3m Cable

**INPUT**

- 2 Analog Inputs (4 – 20mA)
- 2 Digital Inputs (low active digital)
- 2 Digital Inputs (high active digital)

**OUTPUT**

- 2 Digital Outputs open collector driven to sink 250mA at 12- 24V DC

**ELECTRICAL CHARACTERISTIC**

- Operating Voltage
- 10 – 30V DC
- Stand By: 15mA to 35mA (Typical 20mA)
- GSM Stand By
- Relay Off
- Active During Transmission 300mA (Peak 2 Amp)
- GSM Talk
- Relay Off (Add Relay Current to the above if relay is on)

**Communication Mode**

- SMS or Data Call

**Polling Mode**

- Data is send using SMS with User define time interval & number of data point

**Password Protection**

- 6 Digit (User Changeable Over The Air Using SMS)

**Broadcast Centre**

- 2 Centre Numbers (User Changeable Over The Air Using SMS)

**Panic**

- If any of the 4 Inputs is activated, SMS will be send to the above 2 Centre.

**Back Up Battery**

- Standard (Duration can be customize)

**Solar Charger**

- Optional

**OPERATING TEMPERATURE**

- 0°C to +55°C

**DIMENSION**

- 66mm x 42mm x 31mm

**WEIGHT**

- 70g (W/O Antenna Cable)

**ENCLOSURE**

- ABS Plastic (Custom design is possible)

