MuconICs DataLogger

GSM / GPRS/3G/4G Messaging Data Logger

Product Family

Pressure remote data logger
Level remote data logger
Flow remote data logger
Temperature remote data logger
Event Device remote data logger
Water level remote data logger
Text message alerts
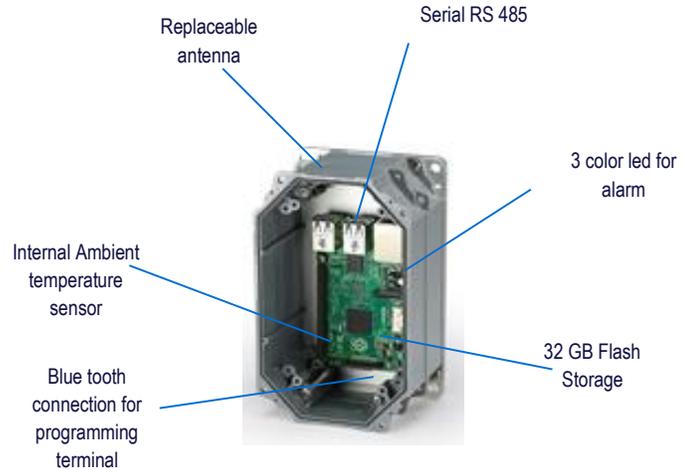
IP 67 Enclosure Ratting

MuconICs

Remote Water Level Measurement & data logger

Muconics Remote water level measurement and data logger is a device to measure the water level, record the value in local device sending instant value to the office server using short message service operated by GSM/GPRS/3G/4G network infrastructure.

Muconics water level system are used in highly sophisticated environmental and industrial applications that measure remote bodies of water: ponds, streams, canals and even oceans. These systems typically involve remote, solar-powered ultrasonic level sensors transmitting measurements to centralized management system via cellular, satellite or radio communications. Micronics provides the accuracy, long-term durability, digital communications and rapid time-to-first-measurement speed that makes remote water level measurement systems practical.

The 6547 Radar Water Level Sensor provides continuous water level measurement of water in rivers, streams, open waste water channels, storm water overflow tanks and pump stations. The 6547 is a radar sensor which provides accurate long term measurements of water level up to 8m range from the sensor.

The radar sensor emits extremely short microwave pulses through the antenna. The emitted signal is reflected by the medium/water and then received as an echo by the antenna. The time between the emitted and received signal is proportional to the distance and is outputted as measured value.

Replaceable antenna

Serial RS 485

3 color led for alarm

Internal Ambient temperature sensor

Blue tooth connection for programming terminal

32 GB Flash Storage

The sensor is normally mounted vertically with a bracket mounted on a structure with the sensor pointing downwards. The 6547 is almost maintenance-free due to non-contact measuring principle and is protected by a IP 68 housing. Radar readings are unaffected by change in temperature and pressure making this instrument ideal for use in difficult process conditions.

Measurement and monitoring

- Temperature
- Humidity
- Dew point
- Two-state inputs
- Counter

Mobile Data loggers measure physical quantities such as temperature, dew point, humidity and monitor also two-state signals or count pulses. The measuring interval can be set up from 1s to 24h. The measured value is shown on LCD display as well as MIN / MAX value.

Alarm indication

- Exceeding of alarm limits on the channel
- Device failure
- Battery condition
- Memory occupancy
- External power failure

For each measurement channel can be set upper and lower limits. In case the limits are exceeded these alarm is indicated on the display, visually by LED or acoustically. Built-in GSM modem allows to send alarm via SMS as text message. Users can be also informed about device failure, battery and memory state or external power failure. The device also supports Latched alarms - every alarm occurring in the device remains active until some operator's action, irrespective of the measurement values (until the time of manual cancel).

Record

- Non-cyclic record mode
- Cyclic record mode (FIFO)
- Recording continuously
- Recording at the alarm time

Recording can be performed continuously or at the alarm time only. Measured data can be stored in memory at intervals from 1s to 24h. Logging mode can be adjusted as non-cyclic, when logging stops after filling the memory or cyclic, when the oldest recorded values are overwritten by new ones after memory is full (first in first out). Up to 500 000 values can be stored in memory.

Data transmitting via GSM

- Alarm indication via SMS as texts
- Keep alive texts
- Data collecting to Comet cloud and software via GSM

Built-in battery operated GSM modem allows alarm indication and data transmitting. Data can be sent in the shortest interval of 5min to Comet database software or Comet cloud thru data network. For saving battery live there is a function of data buffering to keep GSM modem in the sleeping mode for longer time. Users can also set up keep alive texts which periodically inform of current state.

3 color led for