



BSC-50-E

Autonomous RTU/Data Logger

Sewer water monitoring

Version: 1.0 – January 2012

Introduction

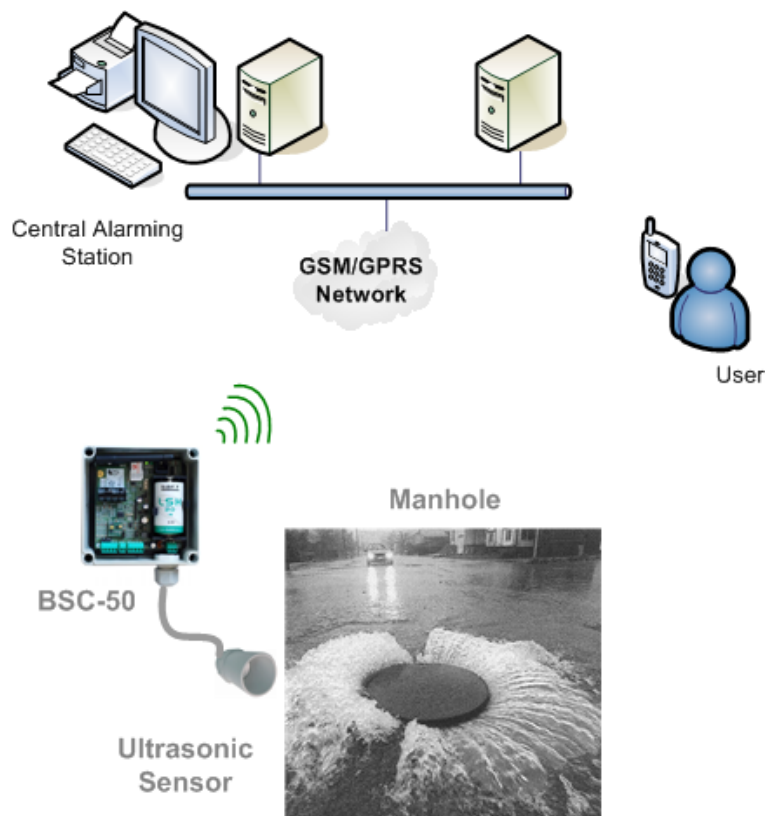
For water authorities, municipal water, and wastewater plants, it is imperative to have a low cost, low-maintenance solution that delivers automatically wastewater data. Such data are used by authorities to prevent overflows and contaminations.

BSC-50-E is a GSM/GPRS, battery powered data logger capable to handle demanding applications such as alarming and monitoring of sewer waste water.

Requirements

- Monitor the level of sewer water in underground open channel pipe systems using a GSM/GPRS RTU.
- Reliable device operating in extreme conditions, with an IP68 housing.
- Operate for more than 3 years on a single D size power cell.

Proposal



Infinite BSC-50-E is a battery powered RTU/Data logger designed specifically for remote monitoring and alarming. A BSC-50-E unit equipped with an ultrasonic sensor is ideal for open channel flow monitoring featuring advanced relay alarming.

Using proven ultrasonic echo ranging technology it is possible to monitor wastewater of any consistency up to 4 m in depth. Achievable resolution is 0.1 % with accuracy

to 0.25 % of range. The solution is immune to problems caused by suspended solids, harsh corrosives, grease or silt in the effluent, reducing downtime.

BSC-50-E is an ultra low power device consuming less than 40 μ A during steady operation.

For example, a BSC-50-E sampling every 15 minutes, alarming immediately and sending logged data every 6 hours, will operate on one Lithium Thionyl battery for more than 5 years.

Why BSC-50

- All-in-one cellular GPRS quad band solution
- Ultra low power, can run for years on one D type battery
- Real-time alarming and data logging
- Easy to implement and maintain
- Seamless connection to SCADA via OPC server
- SMS alarms and M2M functionality