Float Transceiver
Galaxy – Sewage Level Monitoring

The Galaxy two-way network offers water resource authorities the reliability and wide area coverage needed to confidently deploy various sensors in order to manage a city's water cycle. The highly secure Galaxy network is a comprehensive solution for all segments in water resource management, and can facilitate additional utility demand as and when needed, to provide coverage to tens of thousands of battery operated sensors from a single base station. Utilizing wireless communications, the Galaxy network does not have to contend with the limitations of the public Telco infrastructure. Sensors in the Galaxy water resource management range include: water quality sensors, water flow meters, water pressure sensors, and water level sensors.

The Float Transceiver utilizes two-way communications to report on levels of sewage. Two alert levels are provided from the sensors in the transceiver's two floats. Two-way communications function as follows:

The Float Transceiver systematically stores sewage levels in the transceiver's data-logger. The Galaxy Base Station periodically interrogates the Float Transceiver - at flexible intervals, scheduled according to customers' needs. The Float Transceiver transmits status reports back to the Base Station. Two alert levels allow for vigilant status reports: If the sewage level crosses either alert level an alert is automatically generated and included in the next status report.

Single Base Station
for wide area coverage with **tens of thousands** of managed sensors.

Sewage and water level monitoring

- Ultrasonic sensors
- Real time alerts

Telematics *Wireless*

Properties

- Two-way network for sensor monitoring and remote control
- Highly secure management system, can be integrated to security systems
- External power supply not needed, unit powered by Internal battery

RF Specifications

Frequency:	450-470MHz- Licensed band
Bandwidth:	6.25KHz
Receiver Sensitivity:	-120dBm@4.8kbps
Output Transmit Power:	Up to +36dBm/4Watt
Certification:	FCC Part 90.210, spectrum mask E
Range from Base Station to Transceiver:	Up to 5km (depending on topography)
Range from Repeater to Transceiver:	Up to 3km (depending on topography)
Range from Base Station to Repeater:	Up to 20km (depending on topography)

Electrical specifications

Battery life:	5 years
Lower Float Cable:	Blue
Upper Float Cable:	Red

Mechanical Specifications

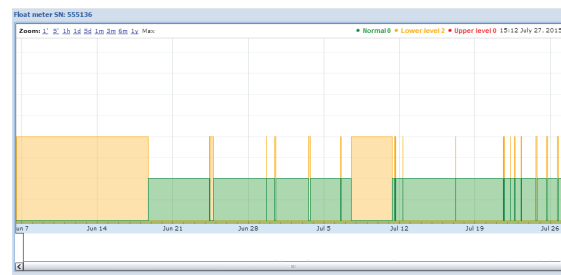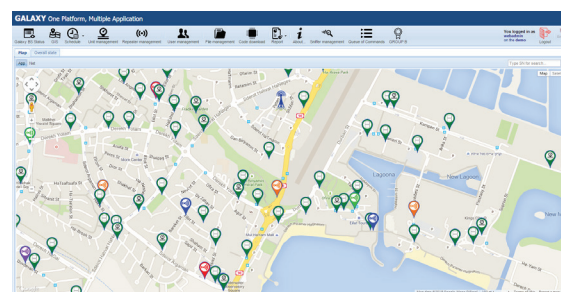|	
Physical Dimensions:	186x138x138 mm
Cable Length:	10m

Company Overview

Telematics Wireless is a recognized global leader in the delivery of robust, reliable and advanced energy and water resource management systems based on RF wireless networks. With almost 20 years of experience in Machine-to-Machine (M2M) technologies, our solutions support a wide spectrum of smart city applications, increasing their efficiency, reliability, and cost-effectiveness. Telematics Wireless has delivered and installed over 15 million cutting-edge wireless devices and water systems for Automatic Meter Readings (AMR), Advanced Metering Infrastructure (AMI), energy resource management, smart grid, street and outdoor lighting control systems, location-based services, asset tracking and monitoring, and electronic toll collection.

* Specifications subject to change without prior notice

Vigilant status reports include two alert levels

Sensors on the map

Repeater with optional Solar Panel for fully autonomous operation

When needed repeaters are used to cover "dead zones" or to increase the coverage range

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