Wireless Telemetry, Telematics and Internet of Things – Remote Control and Monitoring and Connectivity

Wireless telemetry and telematics are generally defined as wireless M2M (machine to machine, man-to-machine or machine-to-man) communications via a radio link.

M2M communications often involve the transfer of data to and from sensors and actuators for remote monitoring, data collection and device control purposes. Sensors measure parameters such a temperature, water flow, voltages, current, wind speed, and switch closure, among others. Control devices could be relays, magnetic contactors, servomotors, etc.

Each control and monitoring unit can be remotely managed from a wireless central monitoring station (CMS). The wireless CMS involve some form of display and operator interface that is used to perform all essential functions like remote updates, testing, monitoring and control tasks from a single central station. All this to provide you peace of mind.

CSI offers a wide range of wireless communication option using RF technologies that covers remote distances from less than a meter to global wireless coverage. Wireless M2M is carried over such technologies as GSM, CDMA, Bluetooth, RFID and Wi-Fi, etc.

Applications of Wireless Telemetry and Telematics

GSM-based Car Alarm

Elevating the common car alarm system to a technologically sophisticated security system.

CSI has developed a GSM-based Car Alarm and Security System that can be controlled either by a remote control or by a cellular phone using SMS commands. It can be installed as a stand-alone unit or integrated with existing car alarm system and sensors.

Basic features include:

- SMS Alert upon intrusion
- Location tracking by using cell site triangulation service of GSM provider
- Remote vehicle control and engine immobilization

Facilities Management

CSI has developed a GSM-based Facilities Management system. Essentially, a GSM-based unit with analog and digital inputs and outputs is installed in remotely monitored facilities. The GSM unit can monitor temperature, voltages, heaters, air-conditioners, thermostats, etc.

Should any or all of the monitored parameters trigger an alarm, pre-assigned cellular numbers will be notified. For multiple remote sites, a central monitoring software is available to consolidate all alarm monitoring and control functions.

Other applications

CSI Wireless M2M design and engineering capabilities open opportunities for innovative applications in areas such as:

- Security and tracking
- Remote automatic meter-reading (AMR)
- Vending machines
- Elevators and escalators
- Industrial automation
- Road traffic information
- Traffic control systems
- Advertising
- Entertainment
- Remote preventive maintenance

Need Advice? Contact:

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