

### Telemetry

Because of its sweeping advantages in a number of industrial applications, wireless telemetry is one of today's fastest growing wireless technologies. Basically, wireless telemetry uses either terrestrial (eg. GSM) or satellite based networks for machine-to-machine or machine-to-person communications that immediately notify operators of changing conditions.

With wireless Telemetry, your machines can be set to call you, so you don't have to call on them. It's the effective way to collect information, set parameters, receive indications of unusual situations or take care of on-line transactions on countless machines such as elevators, vending machines, automatic metering. As a result, your business becomes more effective. Customer service is improved. And practically limitless opportunities are created.

Enterprises use wireless telemetry for countless applications. A few examples include monitoring remote operations, tracking and managing fleet vehicles or notifying emergency personnel when a lone worker needs medical assistance. Used in conjunction with temperature sensors, wireless telemetry can automatically signal a company of malfunctioning equipment in a remote location before the equipment overheats. That way, the company can shut down problematic equipment or turn on emergency equipment.

Other telemetry devices can track mobile assets using Global Positioning System (GPS) satellites and two-way data communication. For example, a truck fleet operator can monitor a truck's location, maintain two-way communication with the driver and monitor the truck's engine and trailer refrigeration unit – all at the same time. The possibilities for better management and efficiencies are virtually unlimited.

**WatchLink GSM** provide wireless telemetry solutions to customers in utilities, agriculture, water and wastewater, trucking and fleet management, construction, oil and gas, rail transportation, vending and many other industries. Our products can be used worldwide because they use the global GSM standard to communicate over wireless. In addition, we supply other Telemetry solutions using GPS/Bluetooth and RF/Satellite technologies.

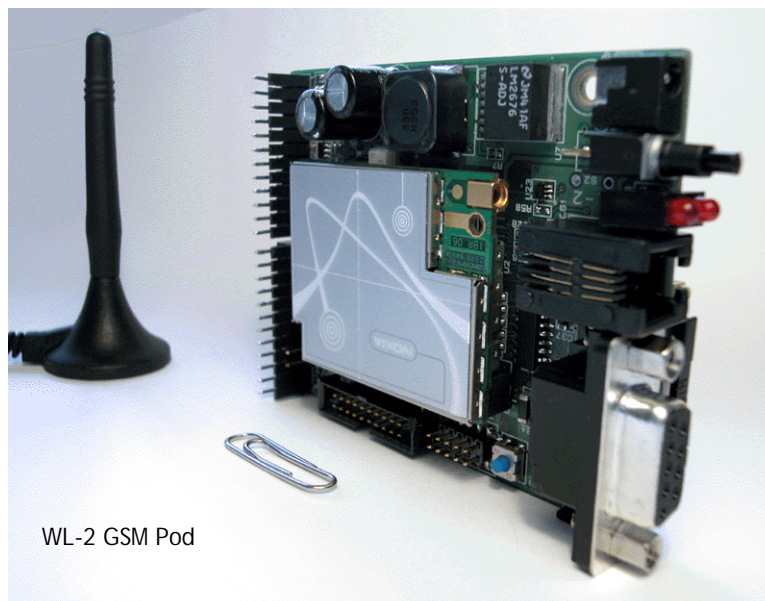
*Wireless telemetry is one of today's fastest growing technologies*



## What is M2M ?

There are millions of machines around us - vending machines, elevators, pumps and meters, traffic lights... To keep going, most of them need to be monitored and supervised, have information collected, parameters set and online transactions conducted. Communication is needed between systems, devices and individuals. That is what M2M stands for ; machine-to-machine, mobile-to-machine and machine-to-mobile. Wireless technology is already managing data transmission and connection to the Internet. So it makes good sense to put it to work in machines. The M2M business is in a phase of fast growth and M2M solutions are fast becoming a part of many companies' everyday life. GSM networks are used worldwide and so it makes sense to harness these networks for remote Telemetry applications. Applications can be found in almost any segment or environment such as ;

- Security
- Automatic meter reading
- Vending machines
- Elevators and escalators
- Process Control
- Cargo tracking
- Road traffic information
- Traffic control systems
- Environmental Monitoring
- Telemedicine
- Agriculture
- CCTV
- Water Treatment
- Pollution Control
- Personnel Monitoring
- Access control
- Home Automation
- Remote site monitoring
- Facilities management
- Energy audits

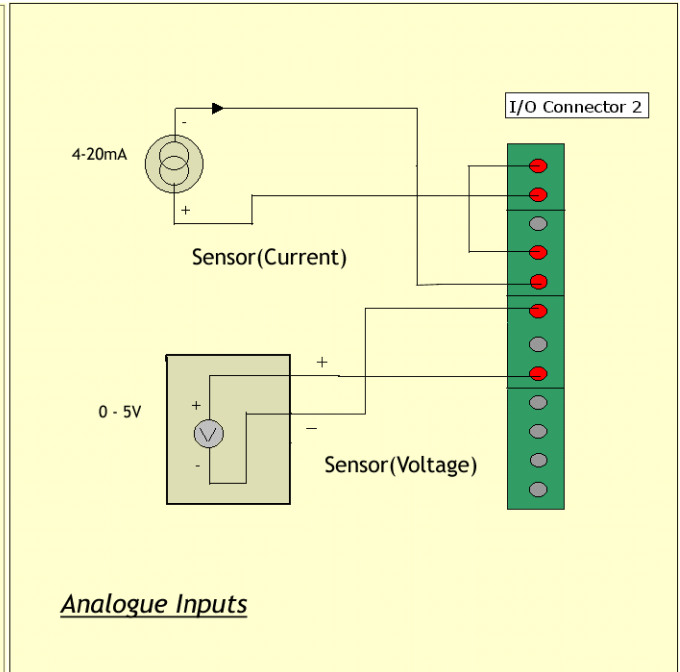
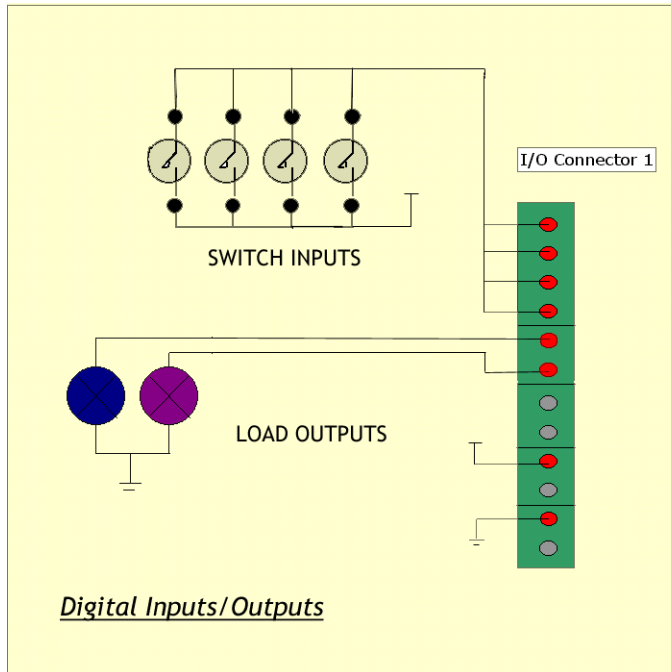


WL-2 GSM Pod

The **WatchLink GSM** WL-2 Pod with Java support provides the possibility to control devices and query data from them remotely, such as at home, at the office, or while on vacation. Java enables faster application program development without the need for any external microcontroller electronics. The compact sized Pod can be integrated with and installed in any industrial devices to provide marked improvements in productivity. These include air conditioners, security panels, access readers or any household equipment for making automation solutions. Together with GPS support, the Pod can improve managing transport vehicles and plant equipment. Because of its diverse range of interface connectors, the WL-2 Pod can be easily expanded to create other products. For example, **WatchLink GSM** have integrated the WL-2 GSM Pod into a robust waterproof product (WL-1B) for more demanding applications. The Pod can be wired directly to many sensors, actuators and devices without the addition of any external circuitry to give ready-to-go wireless Telemetry solutions using the GSM /GPRS networks. Some examples of interfacing the WL-2 Pod is shown on the next page.



WL-2 GSM Pod Interface Examples 1



WL-2 GSM Pod Interface Examples 2

