

Monitoring for your Convenience

OMNTEC Mfg., Inc, an internationally recognized manufacturer of tank gauging and leak detection products has developed the next generation in monitoring systems. OMNTEC's new network technology not only decreases installation costs, it also provides the user with unprecedented versatility in monitoring. It literally provides infinite possibilities for data collection and monitoring of multiple points.

In the past, sites such as C-stores and hypermarkets were forced to use separate systems to monitor their fueling station and retail establishment. Trying to combine these aspects of their business into one system became cost prohibitive.

While developing a more comprehensive leak detection system it became apparent to OMNTEC that monitoring no longer needed to be restricted to the petroleum field. By utilizing existing RS-485 communications and 4-wire networking technology, the OEL8000II can be adapted to accommodate a multitude of markets for a variety of sensing needs. This comprehensive micro-processor based controller can be used to monitor leak detection, refrigeration, boiler temperatures, lighting outputs, in-station diagnostics, security systems, electric motor monitoring, power surges and generators (see figure I). For C-stores and hypermarkets this means the 4-wires being used to monitor their fueling station can now be used to also monitor their refrigeration units. Owners can now be forewarned if the temperature of their refrigeration units go out of range, preventing inventory loss.

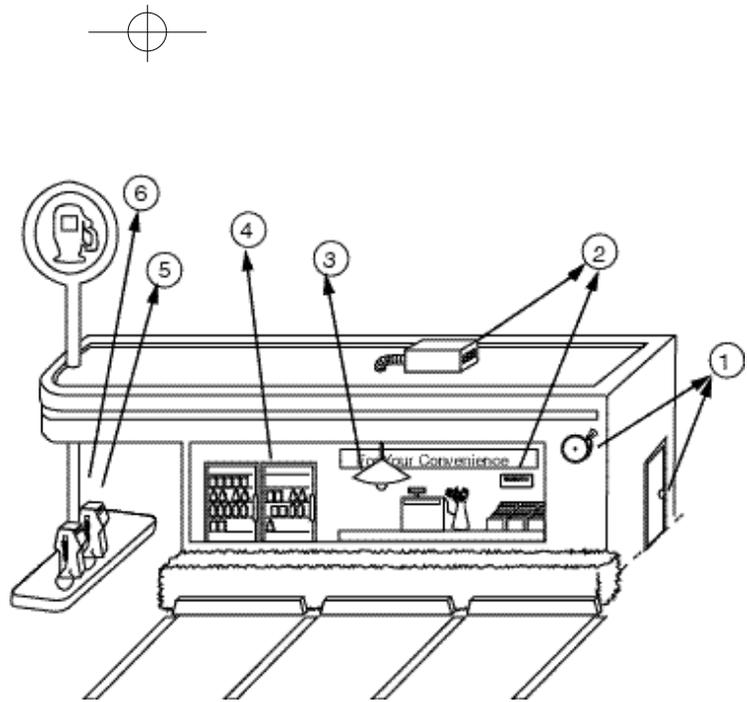


Figure I - various monitoring points
 1. Burglar alarm 2. room temperature 3. inside lighting 4. refrigeration
 5. fueling station 6. ground water

The system was also designed to readily accept additional monitoring points without the need to purchase new consoles or install extensive cable runs. This makes upgrading and expanding more convenient and affordable. When engineering the network it was essential to also design a universal translator that could accept and convert any analog or digital signal (see figure II). This allows any sensor to report its location, function and status back to the OEL8000II. The console can then forward system status information to your fax, PC,

phone or other remote location via OMNTEC PC software. OMNTEC PC software acts as a central station capable of both real time monitoring and periodic polling.

With RS-485 communications, 4-wire network technology and OMNTEC's universal translators your monitoring options are limitless.

It is the objective of the engineering team at OMNTEC to make 4-wire network technology the main thoroughfare for total site monitoring.

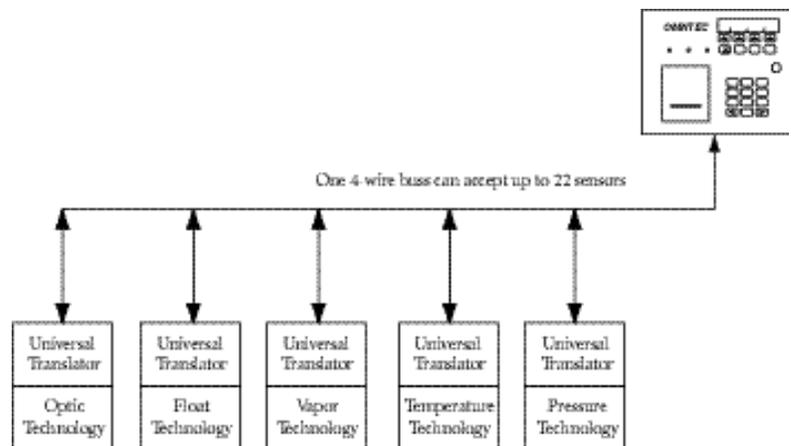


Figure II - Universal translators convert signals being sent to the main controller