

Monitoring landfill leachate levels and flow in vertical leachate wells and side slope risers can be very time consuming if performed manually and can require considerable effort and resource. Automated monitoring systems can simplify the monitoring process although meeting the specific needs of this type of monitoring has historically been difficult. This is particularly relevant where pumping systems are operated by compressed with no electrical power being present at the well head. Efftech has overcome historical barriers by designing a cost effective solar powered sensor system which provides digital readouts of the liquid depth accurate to 5 millimetres as well as providing flow rates and totalised flow volumes.



The network system can be extended to provide multiple site data logging. The data is uplifted to a secure web site where remote monitoring and data processing is carried out. Remote communication is carried out with wireless telephony as the information is transferred via a mobile phone network GPRS data link.

This two tier monitoring system provides a flexible cost effective monitoring solution.

The solar array recharges a conventional 12 volt battery which powers the ATEX conformant liquid level sensor placed at the datum level within the well and displays the level on a LCD display. The flow measurement is also powered by a 12v supply and provides completely non intrusive flow measurement. The system can be used to retrieve data by a visiting technician using simple press and read technology. Or more usefully can be networked to a central display point by license free Radio Frequency (RF) communication system.



For more information please contact [info@efftech.co.uk](mailto:info@efftech.co.uk)