

WIRELESS, REMOTE LEVEL MEASUREMENT FROM INSTROTECH

Data collection on water levels of groundwater, waste water and the filling levels of mobile tanks on vehicles is so convenient with the Keller GSM-2 remote data transmission unit and integrated data logger. Measurements, trends and monitored limits can be sent from the logger direct to a PC via e-mail for analysis with the supplied software or transferred to a mobile phone via SMS.

The cylindrical design of the GSM-2 with a diameter of 48mm, allows the data logger, which “self-dials”, to be accommodated in the top of a sounding pipe used in groundwater measuring equipment. The housing is designed to withstand condensation and being under water for short periods. The antenna is covered with a lockable cap made from solid plastic, ensuring protection from theft or vandalism.

Equipped with energy efficient electronics and a robust lithium battery, the logger can send results of 24 measurements to a PC for up to 10 years. The maximum measuring speed is one measurement per minute. Two voltage inputs, 2 digital inputs, an RS485 interface for operating up to 5 level sensors, or optionally the SDI12 interface for water analysis units, make the GSM-2 data logger a universal data acquisition module for wide area measuring networks.

An air pressure sensor and temperature sensor is integrated into the GSM-2 to ensure long term stability. The measuring accuracies that can be achieved from the difference between the probe signal and the air pressure signal are within the range of a few millimetres.

The heart of the system is the flexible, user -friendly PC software DataManager that works as a central monitoring, controlling and organizing unit. This software acquires, allocates, and displays the measurements in graphical format, provides a signal when limits are exceeded and then stores them in a mySQL database. Third parties can access the measurements using various export and internet functions for integration into data acquisition systems. All parameter settings and monitoring

of the individual GSM-2 data loggers is carried out using the DataManager software.

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