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Remote Water Tank Control using Telemetry

>> Equipment

DT80 *datataker* data logger

Signet 2551 magmeter

3 x *Elpro* 905U-D radio telemetry modules

Optional: *Modmax* modem

>> Customer Requirement

To monitor and control the conditions of a water tank 10 kms away via two remote pumps.

>> Sites

Local Tank Site

Remote Pump 1

Remote Pump 2



>> Solution

The local tank site has a DT80 Data logger connected to an *Elpro* 905U-4 to communicate with remote pumps 1 and 2. The DT80 is also connected to a level switch which has three floats for monitoring low, medium and full levels in the tank and a *Signet* 2551 flow meter for measuring instantaneous flow rate.

Remote Pump Sites 1 and 2 also have *Elpro* 905U-4 modules which receive updates from the tank site as to the tank level.

The DT80 data logger at the tank site is programmed to calculate total flow and pump run hours. These values are recorded at 10 second intervals and automatically downloaded once a day to a remote PC.

NB. This automatic download requires a *Modmax* modem or similar modem suitable to the available telecommunications network.

The flow rate and pump states are displayed at the tank site on the DT80 display.