



Using Grundfos REMOTE MANAGEMENT to monitor irrigation and watering of live stock.

The customer operates a dairy farm in Turkey producing approximately 8.400 tons of milk in a year.

The farm covers a total of 1200 acres half of which is used for growing crops and the other half is used for grazing of 2.250 dairy cows. The farm is situated in a dry area and both live stock and crop require substantial amounts of water to be healthy and efficient. Grundfos deep well submersible pumps are used for groundwater supply in the field.



The situation

There are 16 submersible pumps wide spread in the field and filling the tanks with groundwater positioned in different zones. Whenever the filling level of the tanks is reached, all pumps must be stopped in order to avoid the tank swelling. Technical responsables need to control all the tanks to make sure there is no spill-over and pumps must be stopped when the highest level is reached. They start the pumps again when the tank is emptying. This continuously looping procedure is achieved with a technical team visiting the installations with a service car and it is a very costly solution.

The farm was searching for a different solution, and Grundfos Tyrke introduced them to Grundfos Remote Management.

Result :

Grundfos Turkey installed MP204 for pump monitoring and motor protection along with CIU271 for remote monitoring in the control cabinet of each groundwater pump. The pump and tank status can be viewed online from the office or even from the operator's home. As a result the customer has achieved a more reliable operation and has no tank overflows. The technical team responsible for the pump operation are saving fuel and man hours. Instead of daily inspection the team now recieves an SMS in the event of a problem.



Customer Benefits

- > One responsible supplier for pumps, controls, sensors, monitoring solution and service.
- > A very inexpensive monitoring solution compared to general SCADA systems.
- > A system that is easy to install, understand and use in their local language.
- > An alarm system for pump failure, power failure and also theft / vandalism of pump installations.
- > A complete overview of the energy consumption for all pumps