

Smarta offers affordable pump control without pain



Figure 1 Pedri de Villiers next to a complete Smarta pump management system that empowers the farmer to control his borehole and/or reservoir pumps while also receiving regular reports on all aspects of the pump's operation, water levels and water volumes pumped.

When you are the owner of a Smarta pump management system it is almost as if you are standing next to your borehole or pumping system and you can see all the way down to the bottom of the borehole or into the reservoir, observing everything that is happening.

Smarta pump management systems, irrespective of where you are in the world, show you what the conditions and circumstances are regarding your pumping system:

- Is the pump running or not?
- What is the voltage, current and power condition situation?
- What is the pump's power consumption?
- What is the water level in the borehole or reservoir?
- How fast does the water level drop while the pump is running?
- What is the pump flow rate (if you choose the option with flow meter)?
- How many times and why did the pump switch off and on?
- What is the total pump run time and standing time?
- What is the electricity consumption of the pump?
- What is the power supply quality with respect to stability, surges, and interruptions?
- When is there a power interruption?
- When is somebody tampering with the pumping system?

As if that is not enough the Smarta pump management system keeps record of it all and delivers a report at midnight so that you can use all the information to make informed decisions regarding your water management requirements. You can for instance compare last year and this year's average ground water levels to plan crops.



Figure 3 This is what a Smarta system looks like when installed at a borehole. The Smarta pump management systems tells the farmer all he needs to know about his pump and pumping system, no matter where in the world he is, so that he can always operate, plan and manage his water and water resources.



Figure 2 A single solar panel powers the Smarta pump management system for a reservoir, dam or borehole if electricity is not available.

With the Smarta pump management system coupled to a borehole or reservoir pump you can programme the pump to operate at specific times and/or water levels. If you choose the flow meter option, you can also select the amount of water you want to pump or see the amount of water that you pumped. The flow meters used by Smarta pump management systems are resistant to debris and small stones and will not clog up. Each system is selected and designed to suite the customer's specific needs. Complete pump performance analysis is possible, making planned maintenance and cost saving possible.

Smarta was developed in South Africa for local conditions and needs. Support, advice and spares are always available. Pedri de Villiers is the mastermind behind Smarta. Smarta was developed over a three-year period and several field trials were completed to ensure satisfactory and reliable operation.

Smarta is looking for marketing agents and representatives in towns and regions across South Africa to ensure that no farmer will struggle to get hold and make use of the Smarta product and its advantages that it offers. Smarta pump management systems are installed by the company and training is offered to all users. It is simple and easy to use Smarta, as most of the operation is intuitive and self-explanatory.

Anybody can access the Smarta demonstration site and experience it for yourself. Log on to www.smartaonline.com to view the demonstration site.

For more information concerning your perfect water management system solution, call Pedri de Villiers on cell number 076-432-3013 or contact him by email on pedri@smarta.co.za