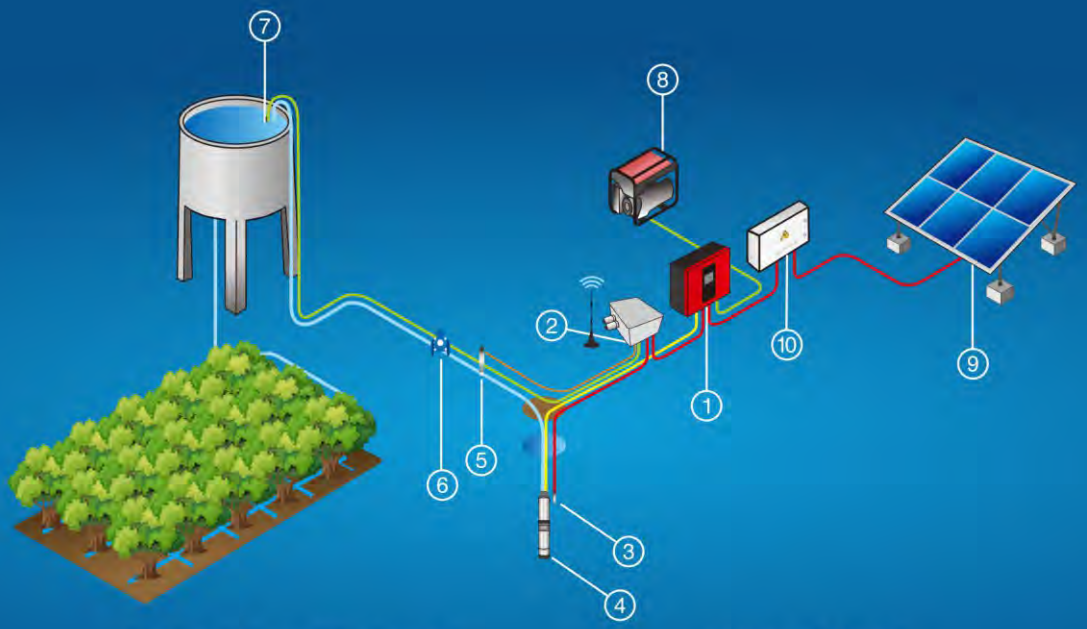
Solartech®

Solartech Remote Monitoring & Control System

Solartech remote monitoring & control system can implement low cost, high effective solar pumping projects management. By applying the DM data monitor in solar pumping system, user is enabled to check solar pumping project's operation status in real time, read and analyze the history operation data, set and control the operation mode, debug and keep maintenance of the system functions by using Solar Winsight mobile App and SP Master solar pumping user management platform.



1. Solar Pumping Inverter
2. DM Data Monitor
3. Liquid Level Sensor
4. Pump
5. Liquid Pressure Sensor
6. Water Meter
7. Water Level Switch
8. Diesel Generator
9. Solar Array
10. Solar Combiner Box

Features

- Manage all solar pumping projects under user's account, create\edit\delete project information.
- Monitor the operation status of solar pumping project, including PV power, PV voltage, PV current, motor current, motor speed, flow rate, water pressure, total dynamic head, cable loss, temperature, inverter operation status, and inverter fault status.
- Monitor the operation status of DM data monitor, including operation status, irradiance, battery capacity, signal strength, and temperature.
- Record historical operation data of solar pumping project, display real time operation data, easy and convenient for statistics and analysis.
- Allowed to set system control parameters remotely to enable or disable all system functions, including operation timing control, motor speed limitation, water pressure control, borehole dry run protection, tank overflow protection, liquid level control, solar irradiance control.
- Allowed to set the solar pumping inverter's operation mode including "Run", "Stop", "Reset" remotely.
- DM-A(R) support to read inverter internal parameters remotely, facilitating remote debugging and operation for user or technician. Record data for up to 5 years (10-minute collection interval, 24-hour operation).
- Apply Bluetooth & GPRS communication methods to achieve local & remote data transmission.
- All data encrypted to ensure data security.

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DM-BR Data Monitor

DM-BR data monitor is the core equipment of Solartech solar pumping monitoring system, which adopts 2G GPRS communication technology for collection and analysis sensing implement signal. The operation data and user instruction of the pumping inverter are transmitted to realize the remote system operation control.

Product Features

- Built-in 2G GPRS communication module to realize remote monitoring of solar pumping system.
- Each connection supports 4KB data cache. If the connection is abnormal, the data can selected not to be lost.
- Compatible with quad-band communication GSM850/900, DCS1800/1900, universal.
- Compatible with DC12V and DC24V input.
- Support GSM/GPRS network; Support 2G/3G/4G mobile cards 2G of traffic.
- Temperature sampling, sampling range - 40 ~ 100 ℃, precision: + 2 ℃.
- With pipeline pressure monitoring function, input signal: 0 ~ 10V.
- With liquid level depth monitoring function, input signal: 4 ~ 20mA.
- Support 4 network connections online at the same time, support TCP Client and UDP Client.
- With function of flow sampling of pulse flow meter.

Model	Dimension (mm)			Net Weight (kg)
	W	H	D	
DM-BR	115	134.5	68	0.3

System Accessories: User can select the accessories according to project requirement.

DM - B R
- R: With Remote Communication Module
- B: Model Code
- DM: Product Series: Data Monitor

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