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PRODUCTS OR MACHINERY

The SUNTRACK 10 is a microcontroller-based system, ECU (Electronic Control Unit), which has been designed to follow up on two axes with high precision. It is suitable for all types of PV modules most common, including photovoltaic panels, concentration systems and heliostats.

The control modules, working in open loop, calculate the relative position of the Sun (astronomical events), both Elevation and Azimuth, with a precision of 0.01 °. In closed loop, the system has a solar sensor that works when there is enough radiation directly and includes an auto adjustable function for the sensor solar and photovoltaic tower, eliminating the need for very precise adjustments in the alignment between the sensor mechanical solar and photovoltaic tower.

The solar follower has two communication ports for RS 485 MODBUS. One for configurig software, allowing maintenance and operation. The other allows the integration of the system of central control of the plant site, through the monitoring software.

A solar heating central is an industrial i nstallation in which, from heating a fluid by solar radiation and its use in a conventional thermodynamic cycle, the power required to move an alternator for power generation is produced as a thermal classic.

It is necessary to concentrate the solar radiation in order to reach high temperatures, from 300 ° C to 1000 ° C, and thus obtain a yield acceptable in the thermodynamic cycle, which could not be got with lower temperatures. The uptake and concentration of the sun's rays are made through mirrors with automatic guidance pointing to a central tower which heats the fluid. The whole of the reflecting surface and its guidance device called heliostat.

The solar photovoltaic energy is based on the collection of solar energy and its transformation into electricity through photovoltaic modules. There are two types of modules: flat panels and concentration panels.

Company Profile of **Suntrack (P4Q Electronics SL)**

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