



MaxComm the Communication Platform for SolarMax Inverters

In order to meet the growing need for the remote monitoring of PV plants, Sputnik Engineering has developed MaxComm – the Communication Platform for SolarMax inverters. MaxComm has a flexible modular structure, allowing it to be adapted to fit virtually any customer situation. Furthermore, MaxComm can be adapted to fit new user requirements, as for example when increasing solar power plant capacity, or when modifying monitoring requirements. MaxComm can also be adapted to provide tailor-made solutions, offering a wide range of applications from private households to large commercial power plants.

MaxComm Basic

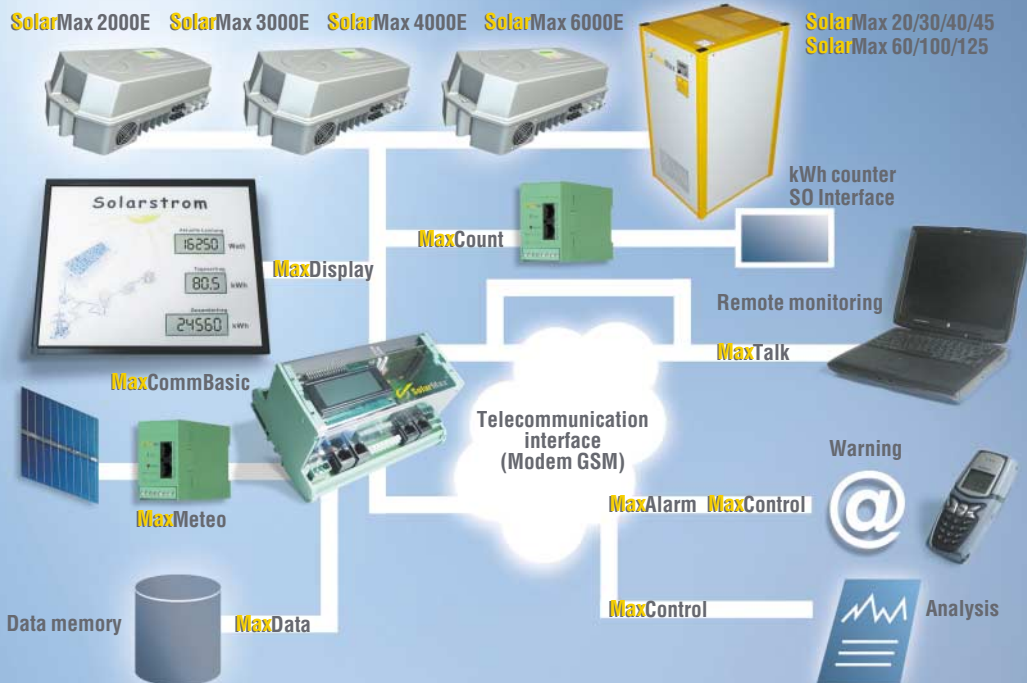
MaxComm Basic is the interface between Solar Power Plants and the outside world. With MaxComm Basic, measured values and inverter status data can be called up and presented on a liquid crystal display, backed up by MaxTalk Communication Software which provides the opportunity of processing and displaying data on a PC via an RS-232 serial interface. In addition, MaxComm Basic enables remote enquiries to be made via an integrated telecommunication interface, or modem/GSM.

Solar Inverter Interface (WRI)

The link between each SolarMax and the system communications bus is made using an WRI unit. Where series solar inverters are used, an WRI can be installed quite simply as a plug-in card inside the appliance. WRI can be directly connected to a PC via an RS 232 interface, which means that no additional components are required for solar power plants using a single SolarMax unit.

MaxData

MaxData enables you to record system measurements over a longer period of time (data logger). The data can be read out on your computer via the network connection or on a PC at the site and then processed using the MaxTalk visualization software.



Features

- High flexibility, thanks to modular construction
- Easy-to-operate user interfaces (MaxTalk and LCD)
- Stable, inconspicuous RS 485 bus
- Can monitor up to 200 inverters in a network
- Up to 1 year data retrieval via MaxData storage
- Hotline

MaxAlarm

MaxAlarm is an optional software module for MaxComm Basic, which enables remote monitoring of SolarMax inverters. MaxAlarm recognises faults in individual inverters and in the power plant. It then issues messages and delivers reports via email on daily and overall functioning of the power plant and the individual inverters.

MaxDisplay

Max Display is an optional software module for MaxComm Basic which enables the user to present vital solar power production data publicly on large display units. Large display units from such renowned firms as Schneider, Skytron and Rico can be directly connected to the MaxComm Bus. Further information is available at www.schneider-displaytechnik.de / www.rico-electronic.com / www.skytronenergy.com.

MaxControl

MaxControl is the ideal monitoring system for large commercial solar power plants using SolarMax central solar inverters. MaxControl used in conjunction with MaxAlarm enables accurate measurement of solar power plant yield and guarantees optimum operational availability. For more information on MaxControl, please contact Sputnik Engineering.

MaxMeteo

The MaxMeteo hardware module enables sunlight intensity and solar cell temperature sensors to be connected to the MaxComm communication bus.

MaxCount

MaxCount hardware modules enable two electricity meters fitted with standardised impulse outputs to be connected to the MaxComm communication bus, thereby enabling daily, annual and total electricity consumption from the various meters to be calculated.

MaxTalk

MaxTalk is an easy-to-use Microsoft Windows® compatible software enabling communication via PC between the user and the solar power plant. MaxTalk makes it possible to run any number of solar power plants and provides the additional possibility of presenting and calculating inverter information on-line. MaxComm Basic is not used when MaxTalk Direct is installed since direct connection between the PC and the MaxComm communication bus is enabled via an RS-232 to RS-485 converter. For power plants consisting of only one converter, direct connection between the PC and the inverter is possible using a MaxTalk Light module via the PC's RS-232 interface.



Solar inverter interface



MaxComm Basic

MaxDisplay