

DIEHL

AKO

Safety for the future

PLATINUM MONITORING



WebMaster
ViewMaster
PV-Monitor

Professional solutions for all types of PV-plants

PLATINUM

WebMaster



Monitoring of photovoltaic plants*

- You have many possibilities to evaluate your photovoltaic plant's efficiency.
- PLATINUM EIA485 communication makes it easy to connect the Webmaster to the inverters.
- For remote monitoring, an internet connection can be established using the network port. Connections via GSM, ISDN or analog modem are possible.
- If configured as a control station, the WebMaster supports systems of up to 500 inverters.
- Transferring yield and operating data to the PLATINUM SolarPortal for evaluation and processing.
- In case of malfunctions, you will receive an automatic message to your computer or your mobile phone.



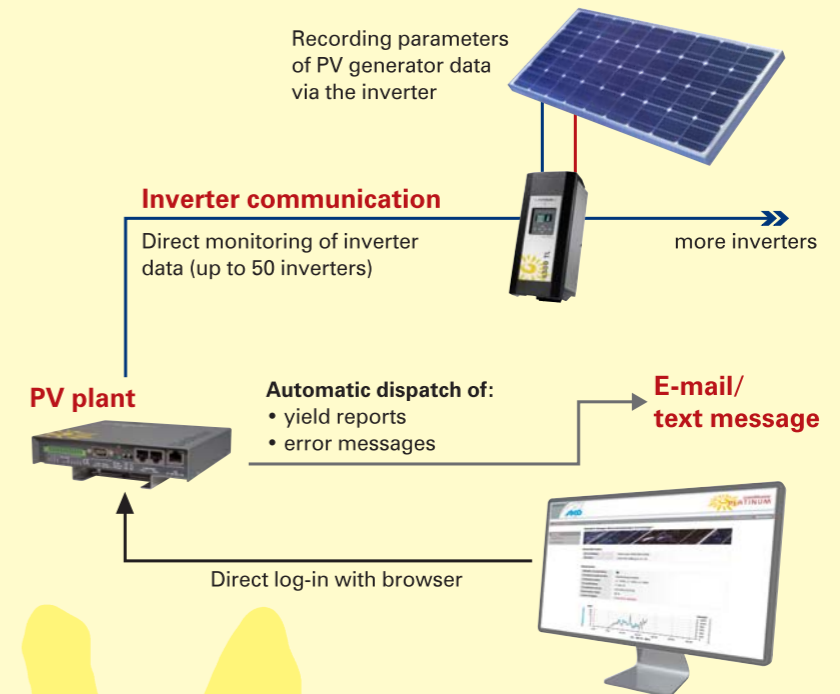
No extra computer software required.
You can use the existing web browser.

With the **WebMaster**, there is no need to worry:
Your PV plant is in good hands.
It is under surveillance day and night.

With the **WebMaster**, you can record detailed data and measured values of individual inverters as well as of the complete system and visualize them on a computer: e.g. the current power, daily, monthly or annual yields, configuration data etc.

You can work directly on the system with the computer.

Using a modem, the **WebMaster** allows checking your photovoltaic plant from everywhere, no matter whether you are away on a trip or at your office.



The **WebMaster** recognises malfunctions and deviations from preset yields and informs you by sending an e-mail to a given address.

The **WebMaster** is based on a reliable communication system and has been optimized for use with PLATINUM inverters.



*only in combination with PLATINUM inverter

PLATINUM

ViewMaster



Central reading of photovoltaic plants

Easy reading of your PV plant's current performance data:

- For technical reasons, it is often necessary to install solar inverters in places that make monitoring difficult. The **PLATINUM ViewMaster** provides a **convenient and central possibility** for reading the data of the entire PV plant, even far away from where the inverter is installed.
- **Visualising performance and yield** of every single inverter for different periods of time, such as day, week, month or year.
- **Integrated datalogger.**
- **Text display** of inverter events.
- Clear status indication with 2 LEDs.
- **Easy operation**, almost identical to **PLATINUM inverters**.
- **Simple installation and start-up**, even in established systems.



With the **ViewMaster**, you can access your PV plant's current data anytime and anywhere.



PLATINUM

PV-MONITOR



Evaluation of PV plant data

- With the **PV-Monitor** you can easily monitor the functioning and feed in of your photovoltaics plant with **PLATINUM inverters** from your computer.
- The **PV-Monitor** software displays these measured values in illustrative graphs for a day, a week, a month or a year. For example, the **PV-Monitor** provides diagrams for the performance or yield of the entire plant or the individual inverters.
- The **PV-Monitor** makes your computer the **central data logger**. The built-in **export function** allows processing the data, e.g. using Excel.
- The EIA485 communication bus provides an **easy way to connect** your inverters to your computer.

The **export function** to Excel, XML and text format allows processing the measured data as needed using other programs, such as MS Excel, and sending your data.

Especially for smaller PV plants, the **PV-Monitor** makes for an advantageous cost-benefit ratio.

Installing the CommStick and the software is easy. Thanks to the **EIA 458 line**, a distance of several hundred meters between the inverters and the computer is no problem at all.

*The **PV-Monitor** is suitable for all PV plants with **PLATINUM inverters** (manufactured after January 2007). A software upgrade makes it possible to use a **PV-Monitor** for older systems as well. Don't hesitate to contact us if you're interested.*



PLATINUM SolarPortal

The professional solution for remote monitoring and yield analysis

Photovoltaic power plants mean high investments as well as high yield assumptions. **Yield protection** plays an important role for project managers, investors and users.

Early fault detection, and thus quick fault elimination, are of high value for a photovoltaic system's **profitability**.

Using the **PLATINUM WebMaster**, all relevant system data are transmitted to the **SolarPortal server** and then stored and processed. This makes it

possible to detect system errors and long-term yield changes.

Another unique feature is the possibility to calculate nominal and actual values from weather data. This makes it possible to check the **performance of every system**.

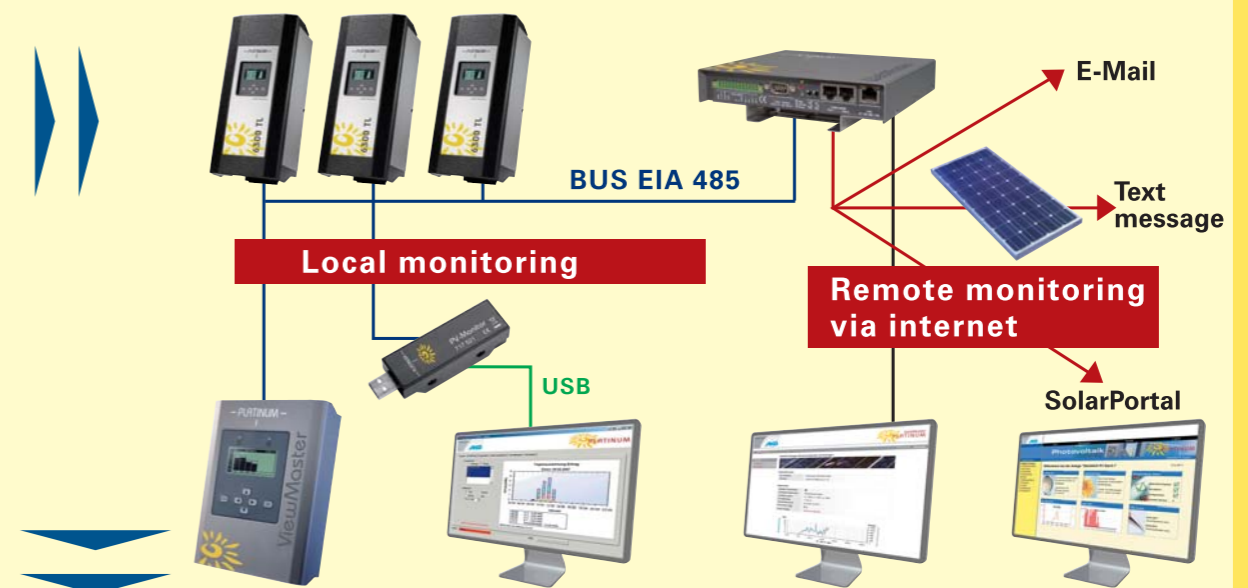
The **integrated user administration** allows customer-specific alarm management as well as access to the data relevant to the respective user from all over the world.

Now also available as a smartphone App

PLATINUM SolarPortal:
Yield protection thanks to professional plant monitoring, even from far away ...



Product overview PV plant monitoring:



Technical data

Technical data	PV-Monitor	ViewMaster	WebMaster	SolarPortal
Recommended system size	Up to 10 inverters	Up to 50 inverters	Up to 50 inverters, up to 500 inverters if one is configured as a control station	Single installation, virtual plants, plant parks
Remote access possible	no	no	yes	yes
Interfaces	PLATINUM network EIA485, USB 2.0	PLATINUM network EIA485	PLATINUM network EIA485, Ethernet 10/100MBit/s	—
Visualisation functions	Current power, daily, weekly, monthly and annual yields	Current power, daily, weekly, monthly and annual yields	Current power, daily, weekly, monthly and annual yields, performance ratio (only with irradiation sensor connected)	Current power, daily, weekly, monthly and annual yields, inverter temperatures, voltages and currents, performance ratio (based on plant sensor or weather data)
Alarm management	—	Alarm contact in case of error	Alarm contact in case of error, e-mail	E-Mail
Reporting	—	—	Technical and economic reports, sent automatically as e-mails	Technical and economic reports, generation of individual reports, sent automatically as e-mails
Other functions	—	Alarm contact in case of error	Data transfer to large-format display via EIA485/HVG or IP, data download to PC	Data back-up, user administration, individual e-mail configuration, data download to PC
Requirements for the terminal	Windows XP, Windows Vista or Windows 7	—	Standard browser with Javascript	Standard browser with Javascript
Further requirements	—	—	—	WebMaster with modem or internet access for data transfer



Diehl AKO

is an internationally leading electronics company which specializes in the development and production of industrial control and regulating systems.

As the market leader, every year we manufacture more than 2 million frequency inverters for power drive systems alone.

Innovation & quality

Diehl AKO sets standards for the development of **innovative concepts** for electronic systems and appliances by established know-how, the selection of component parts and the latest technologies of excellent production and test engineering. From the electronics to the complete appliance, the manufacturing process of our products is certified according to

the **Quality and environment standards**

ISO 9001-2000 and ISO 14000.

All **PLATINUM string inverters** are built in excellent industrial quality. Therefore we give a standard 5-year guarantee for our string inverters. For all **S- and TL-models** we give optional even a **10-year guarantee**. For string inverters there is an optional warranty extension to 20 years.



Environmental protection

*Environmental protection has top priority for **Diehl AKO**. In order to live up to this standard, **Diehl AKO** continually improves manufacturing processes and optimizes the use of resource-friendly materials.*

*The products are manufactured in compliance with the new RoHS standard and the environment standard DIN EN 14001. **PLATINUM string inverters** were the first appliances on the market to be produced using **lead-free** technology.*



PLATINUM

High-performance string inverter



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our common future