

# KACO-monitoring

**watchDOG**  
**inSIGHT**  
**proLOG**

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**inSIGHT**  
**proLOG**

- Integrated monitoring available
- Monitor up to 32 inverters per **proLOG**
- Reliable and accurate data
- Email alarms to maximize uptime
- Historical, current and production trend data
- Environmental savings graph
- Maximize customer satisfaction
- Superior warranty and support
- Affordable and reliable
- Innovative and accurate
- Easy to install



new energy.

# KACO-monitoring

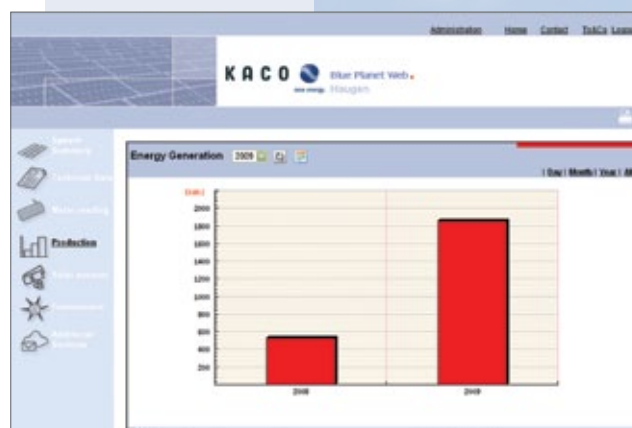
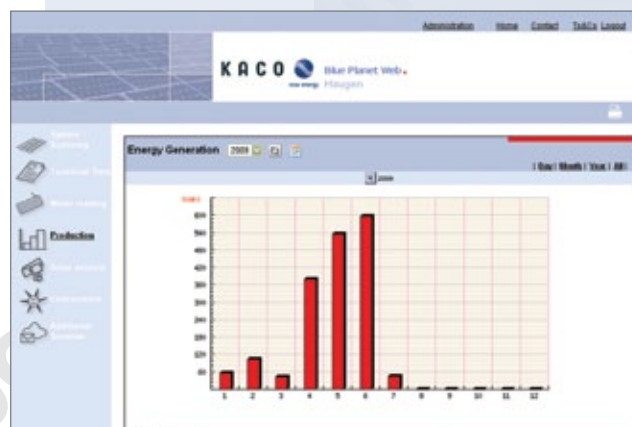
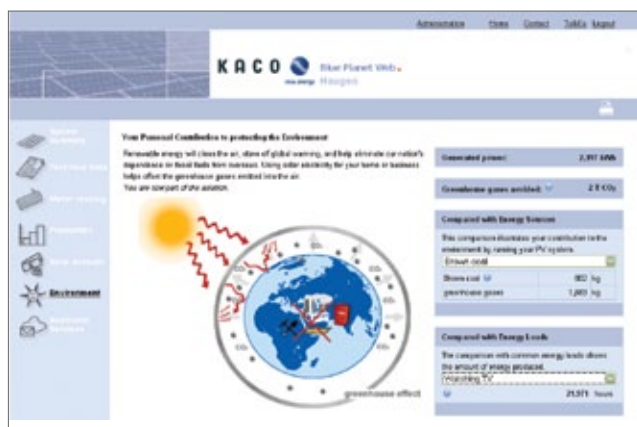


## LETS YOU get on with living

Watch a movie, cook a meal, learn to draw, play a game, email a friend, learn a new language. Whatever it is you do with your free time, using KACO's integrated tools for monitoring your solar system lets you get on with living. Reliable, accurate data, when you need it, and right at your fingertips with KACO's innovative portfolio of accessory options. You can have unlimited access to your historic, current and production trend data or you can proudly review your environmental savings. Or use the integrated KACO **watchDOG** to monitor up to three inverters in one system to produce the same visual graphic representation of your PV production data. The KACO **inSIGHT** RSS feed will provide you with mobile access to your PV system data in your handheld device or PDA like the iPhone™.



State of the art monitoring is available through your preferred inverter partner KACO. Regardless of which you choose you will have peace of mind knowing that you will receive an instant email warning if your system malfunctions or problems arise. Our monitoring options are easy to install, broad reaching and offer KACO's superior warranty and support. So go ahead. Pick up that book, call that friend, or just sit down and relax, smiling with the satisfaction of knowing you are protecting your investment, ensuring maximum energy yield and able to access your PV system data with the push of a button.



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# KACO **watchDOG**

This is the integrated monitoring feature our partners have asked us for. The KACO **watchDOG** is coupled with an embedded digital control processor created by KACO for the 02xi series **blueplanet** inverters that provides a powerful monitoring tool that will accurately and reliably gather the most pertinent data about your PV system. Now it's even easier to know that your PV system is operating at it's optimum level. The **watchDOG** decreases costs and increases reliability to give you the most innovative monitoring solution in the solar marketplace.

The KACO **watchDOG** monitors PV system performance from inside the connection box housing. There is no need to purchase additional external hardware. All that is needed is an active Ethernet internet connection. The **watchDOG** will help to ensure that your system is performing to it's full potential.

Through the KACO **blueplanet** web portal you will be able to remotely view your current production, historical production data and production trends. Your status alarms can be configured to email you the moment that a problem arises. This will help to maximize system uptime, overall performance and increase savings.

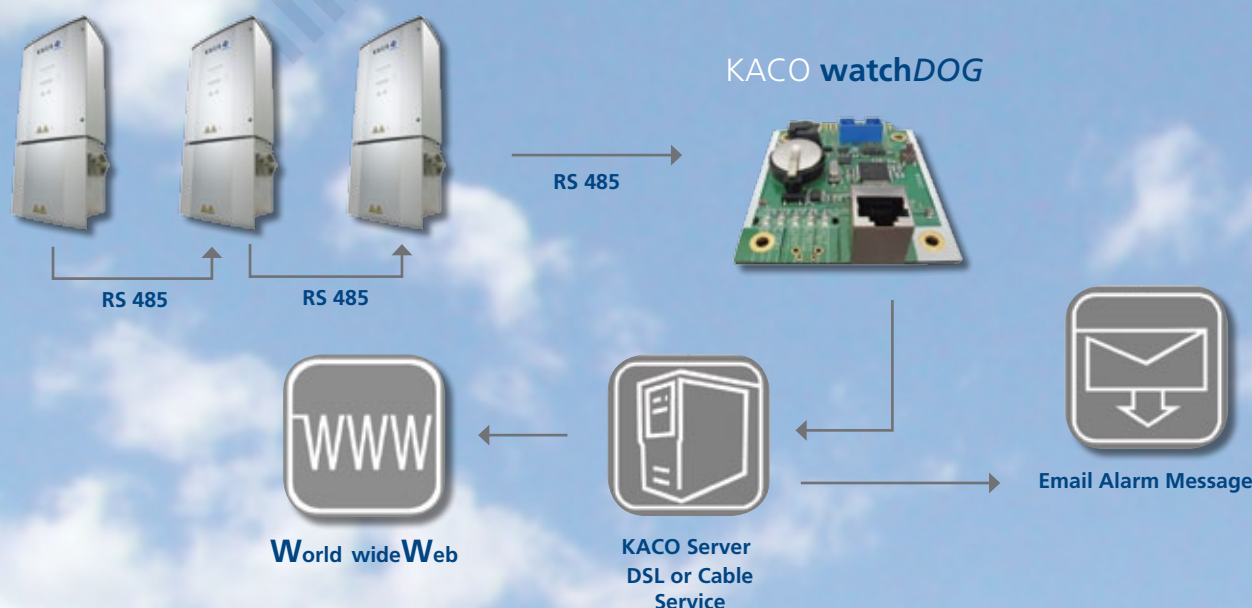
The data can be accessed remotely by Performance Monitoring Reporting Service (PMRS) providers to report your system data for solar incentive reporting.



## features

- Easy field installation inside the 02xi series connection box
- Energy output graphs include hourly, daily, weekly, monthly and annual production graphs
- Voltage vs. Power output graphs available
- Data can be taken from individual inverters or from the entire system
- Production data can be exported to .csv format
- Data can be configured for use by solar incentive program administrators and PMRS providers
- Technical assistance via telephone 9 - 5 Monday through Friday

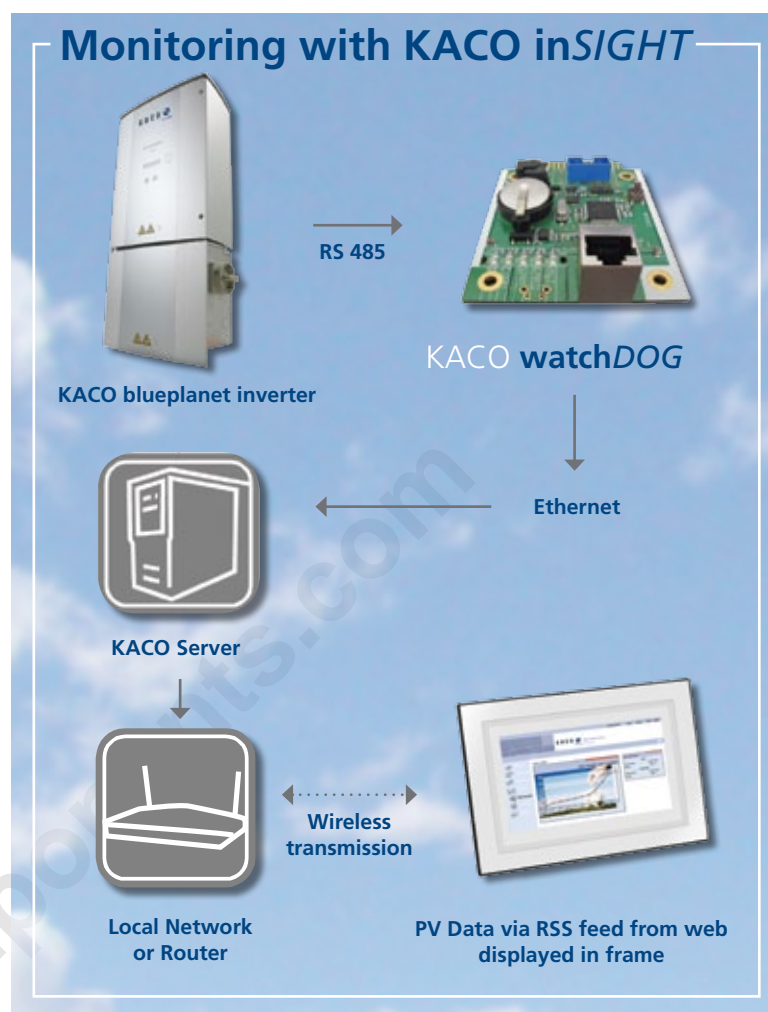
## Remote System Monitoring with KACO **watchDOG**



# KACO inSIGHT

The KACO **inSIGHT** is the future of PV monitoring. A live RSS feed will continuously feed your real time PV data to a wireless picture frame. The KACO **inSIGHT** frame is the industry leader in wireless PV monitoring technology.

Make it easy to access your most important PV information with other cherished possessions including movies, pictures and music. The **inSIGHT** RSS feed and frame will make your PV system the most talked about and viewed possession in your home.



## features

- Affordable & reliable wireless monitoring
- Live RSS feed to your PV data
- 8" LCD screen (10" option)
- Wi-Fi enabled monitoring device
- Receive data from multiple PV systems
- Upload personal pictures, music, movies and more from your PC
- Watch your PV data from anywhere in your home
- Access stock quotes, weather and more while you see how much electricity your PV system produces
- Historical and current PV data displayed

KACO inSIGHT	8"	10"
Dimensions	10.1 × 7.1 × 1.3 in.	11.7 × 8.2 × 1.3 in.
Weight	25.6 oz (725 g)	31.5 oz (893 g)
Display area	6.9 × 3.9 in.	8.7 × 5.2 in.
Display resolution	800 × 480 pixels	800 × 480 pixels
Display type	aSi TFT active matrix	
Memory	512 MB* internal memory available, 2 memory card expansion slots	
Power consumption	7.5 W (power on) 0.43 W (standby power) 0.43 W (power off)	6.80 W (power on) 0.47 W (standby power) 0.47 W (power off)
Power supply	100–120 V AC, 60 Hz (US) 100–240 V AC, 50–60 Hz (WW) 12 V DC	
Operating temperature	32° to 122° F (0° to 50° C)	

# KACO **proLOG**

## basic features

- Remote monitoring of the performance of KACO inverters and external sensors via a web browser
- Local monitoring - direct access from a PC or laptop
- Easily configure alarm criteria and receive email alarms if a problem occurs
- Optional energy meter, irradiation sensor, temperature sensor and current sensor can be connected
- Daily transmission of measured data and performance to an email address specified by the user
- Data storage interval for average values can be set in the range from 5-60 minutes
- Local data analysis can be downloaded through either the integrated Ethernet connection or the integrated Compact Flash slot
- Connection of up to 32 KACO inverters per **proLOG** via RS485 interface
- Display device functions via 6 LEDs in **proLOG M**, and 4 LEDs and an LCD display in the **proLOG XL**

The KACO **proLOG** monitoring system allows you to supervise your photovoltaic installation from your PC. The system is used to log the currents, voltages, temperatures, performance and yield data of each individual inverter as well as the data of external sensors.

KACO **proLOG** automatically returns a message by e-mail in the event of a deviation from the permissible operating status. The alarm criteria can be set individually according to the specific requirements of your PV installation. Stored installation data is sent daily to an e-mail address specified by the user.

You can connect to KACO **proLOG** at any time from your PC so that you can monitor your PV installation and check the actual performance of your KACO inverter and additional sensors.

Optionally, the recorded system data can be stored online via the KACO **blueplanet** web server and made available in a password-protected form. KACO **blueplanet** web is accessed via the Internet.

### KACO **proLOG** M/XL Specifications

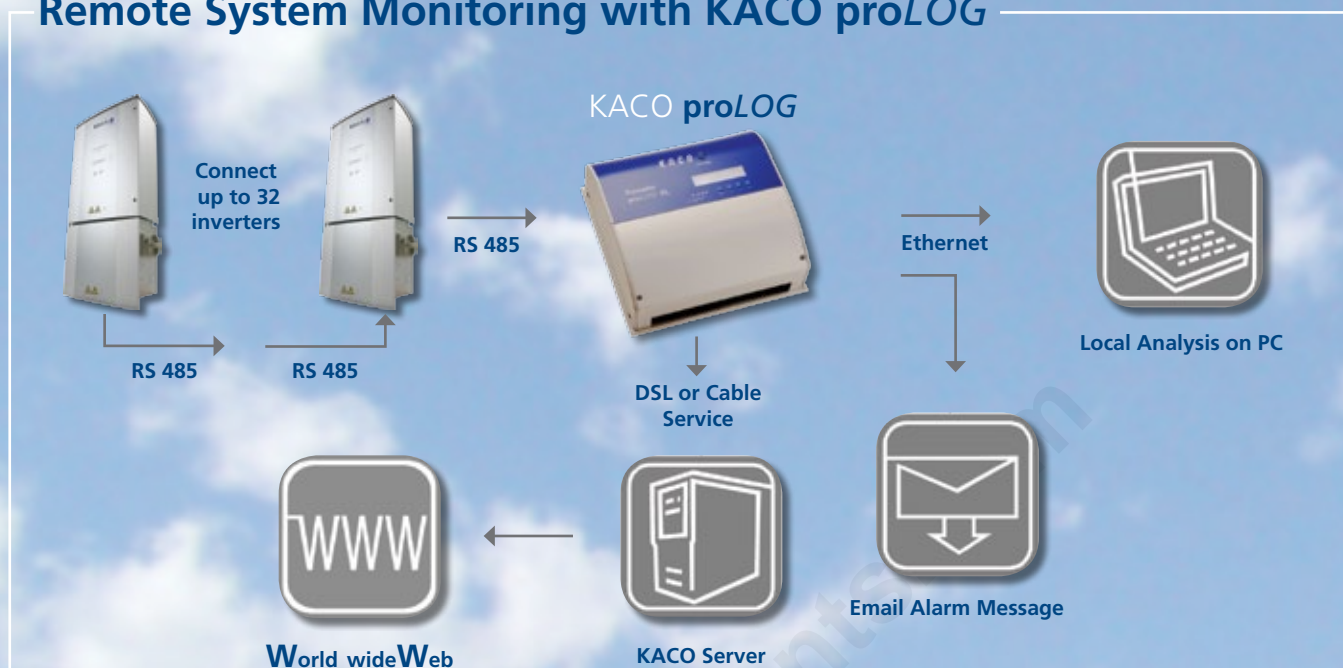
Overview of all KACO <b>proLOG</b> functions	KACO <b>proLOG</b> M	KACO <b>proLOG</b> XL
<b>proLOG</b> data access via	blueplanet web, Ethernet or Compact Flash Card	
Number of inverters that can be connected	32	32
Address range for each inverter	1....32	1....32
Data port for connecting inverter and sensors	RS485	RS485
Analog ports for connecting sensors	1	4
Digital ports for connecting sensors	1	4
Alarm or S0 ports	1	1
Display options	LCD Display, 4 LEDs	LCD Display, 4 LEDs
Memory	Compact Flash Card	Compact Flash Card
Data port for local analysis	Ethernet	Ethernet
Data storage intervals	5-60 minutes	5-60 minutes
Integrated transformer	Included	Included

### KACO **proLOG** technical specifications

Ambient operating temperatures	32°F - 131°F
Storage and transportation	-5°F - 150°F



## Remote System Monitoring with KACO proLOG



## additional features

- Graphical display of PV system data from the KACO **blueplanet** web server, such as total energy output
- Display of all data logged by the KACO inverters: generator power, generator voltage, generator current, feed-in grid voltage, grid current and device temperature
- Personalized alarm settings via KACO server or directly via **proLOG**. Note: ethernet network must allow emails to be sent.
- Reporting function for generating a database over a user-defined period of time
- World wide access through KACO **blueplanet** web via any Internet connection (e.g. DSL, Cable)
- Allows data charts to be integrated into your personal or company homepage

### KACO proLOG M/XL Specifications

#### Electrical specifications

Power consumption	appx. 4W
External power supply	120 V
Analog inputs (customizable)	0 VDC - 10VDC 0mA - 20mA (Max load: 40mA / 3VDC) PT 1000 resetance testing
Digital inputs	Low = 0VDC - 7VDC High = 9VDC - 24VDC
Digital outputs	Optocoupler output (max load: 70VDC / 50mA)
Internal battery (for internal clock)	Lithium Cell / Type Li2032

#### Mechanical specifications

Enclosure dimensions	9" x 8 1/8" x 3 1/8"
Enclosure	IP21 / NEMA 2 (indoor enclosure)
Weight	2 lbs

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