

PV REMOTE PRO

The easy way for monitoring

WEB-BASED PV REMOTE PRO ADVANCED

» Maximize solar power yield
» Advanced diagnostic software
» Scalable solution

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PV REMOTE PRO the Omron solar monitoring solution

Omron is delighted to announce that its PLC is now ready for monitoring photovoltaic (PV) plant, with PVremote Pro. This is the new, easier solution to remote diagnostics of PV plant, with a unique combination of robust industrial automation and reliable, proven monitoring. This professional web-based tool allows users to keep watch on the performance of PV plant, with access to key data from anywhere in the world where there's internet access. PVremote Pro can easily be integrated into existing computer networks using the PLC-integrated Ethernet interface. The solution is optimised for Omron's PV Inverter, so that users can benefit from a complete and integrated single-source solution. The system enables several PV plants to be controlled in a simple and user-friendly environment, with fast and easy access to both current status and historical data for each connected PV inverter. Smart technology enables users to choose which details and events are to be reviewed, and optional radiation and temperature sensors can be connected to allow environmental conditions of the plant to be accessed.



Solar plant

nst Produced Energy roduced Energy Today 108.5 x10)

174.6 11

Solar plant

CO2 Saved

Produced Energy Today

Installed Power Total Produced Energy

198.5 kWp 50.9 MWh 474.6 kWh 25.4 tons

Big display

Both you and your customer have fully transparent access to information about results achieved

Features

- Individual access rights (system integrator, end-user, guest)
- Interactive line- and bar-graph visualizations
- .csv file downloadable for further investigation
- Customizable email notification system
- Performance evaluation
- Calculation of CO2 saved
- Demo view of real PV plants

Benefits

- Scalable and compact
- Robust and reliable hardware
- Easy to integrate into any existing network
- Compressed data-package to save communication costs
- Flexibility of settings
- Web based software to allow access from everywhere
- Fully compatible with and optimized for Omron's PV Inverter, delivering unique, total solution from a single vendor









(8) = User interface

Technical specifications

	Description				
for PLC	50				
	500 m				
	External modem or router (ADSL or WWAN), via Ethernet cable from PLC				
CJ2M CPU33	Typically 1 day (*)				
CJ2M CPU34	Typically 3 day (*)				
	4 – 6 W typical				
	24V DC				
	IP20 (PLC)				
	90mm x 75mm x 62mm (H x D x W)				
	190g or less				
e	0° to 55°C				
	-20° to 70°C (battery excluded)				
	2000m or less				
	10% to 90% with no condensation				
	Category II: Conforms to IEC 61131-2				
	5 years at 25°C				
	One blinking yellow LED indicating RS485 connection active				
	One green LED indicating CPU in RUN mode				
	PRPHL: One blinking yellow LED indicating USB communication active				
	Dedicated Ethernet LEDs				
	Dedicated Analogue Unit LEDs				
	RS485				
	LAN / Ethernet (100 Mbps)				
	USB (for programming)				
	CE, EMC, LVD (EN61131-2), EN61000-6-2 EN61000-6-4				
	Radiation sensor				
	Temperature sensor				
	For PLC				

Monitoring Function Block

Off-line data storage is calculated under the following conditions, based on field tests: (*)

Other data storage is calculated inder the blowing conditions, dated on net rest.
20 operating inverters connected
PLC sends data to the central server every 15 minutes
Four inverters lost/found messages per day
Inverters active for 12 hours per day for the remaining 12 hours, only two analog sensors continue to send data

(**) Optional



License code scheme

Refer to the following table for license codes needed for free access to the Web Portal. For further information, please do not hesitate to contact your nearest Omron office.

Base license description					Plant power			(B)	
Monitoring of a PV-plant for one	ng of a PV-plant for one year (end user access)				up to 20 kWp			KP-RMP-B-1-A	
Monitoring of a PV-plant for one year (end user access)					> 20 kWp up to 50 kWp			1-B	
Monitoring of a PV-plant for one year (end user access)					> 50 kWp up to 200 kWp			1-C	
Monitoring of a PV-plant for one year (end user access)					> 200 kWp up to 1 MWp			1-D	
Monitoring of a PV-plant for one year (end user access)					> 1 MWp up to 3 MWp			KP-RMP-B-1-E	
Monitoring of a PV-plant for one year (end user access)					above 3 MWp			KP-RMP-B-1-X	
Advanced license description				Plant	power		Item name	(A)	
Monitoring and setting of a PV-p	lant for one year (system-integrator	access)	up to	20 kWp		KP-RMP-A-	1-A	
Monitoring and setting of a PV-plant for one year (system-integrator access)			> 20 kWp up to 50 kWp			KP-RMP-A-1-B			
Monitoring and setting of a PV-plant for one year (system-integrator access)			> 50 kWp up to 200 kWp			KP-RMP-A-1-C			
Monitoring and setting of a PV-plant for one year (system-integrator access)				> 200 kWp up to 1 MWp			KP-RMP-A-1-D		
Monitoring and setting of a PV-plant for one year (system-integrator access)			> 1 MWp up to 3 MWp		KP-RMP-A-	1-E			
Monitoring and setting of a PV-plant for one year (system-integrator access)			above 3 MWp			KP-RMP-A-	1-X		

Explanation	PV family	remote pro	license type	duration	class type	blank

License type are classified as:			The power classes are codified as:					
A =	advanced (SI)	A =	20kWp	D =	1MWp			
B =	base (EU)	B =	50kWp	E =	3MWp			
		C =	200kWp	X =	>3MWp			

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