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Cloud-Based Monitoring System







DATA LOGGER





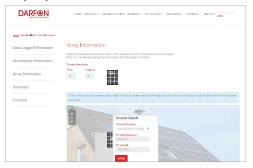
Monitoring for a PV system is a must, whether you are a homeowner, installer or utility. It is the most efficient and inexpensive way to troubleshoot and maintain a PV system. It only makes sense that our monitoring system should be cloud-based for ease of access from anywhere in the world, through a web portal, an Android or iOS mobile app.

With Darfon's monitoring system, each module/microinverter's performance is tracked, so it can be used to pinpoint performance issues and provide guidance for maintenance, ensuring the system is at its optimal performance over the lifetime of the installation.

Screenshots from a phone



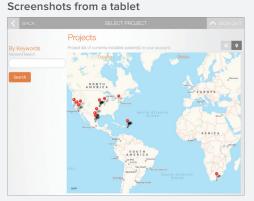
Easy Setup: Drag & drop PV panels to create arrays. System auto-detects microinverters.



Graph View: An overview of the energy production for the day, month or year.



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Array View: An overview of the energy production by solar panel.

DARFON	HOME PROJECTS	NEWINSTALLATION MEMBERS -	MYADOOUNT + RESOURCES + S	trinos + siskout Generationer John
Home (Project / Overview				CHANGE PROJECT
Overview	103A Pioneer Way Mountain View, CA	94041, United States		nyaannaan In 💷 🔆
Array View	200		-	
Sunlight View	-	17571 175	ukenay #1 Tilt 21" Admutic 180" 14 479.84 496.93 483.4 486.2 482.	
Environmental Benefits		100 101 Till 327		
My Devices	Aren RETA	11 Agenut: 1991 1071 1071		Anny PF (TR 21" (Alexa): 107)
Installer Details				
John Smith				
103A Planeer Way				
Mountain View, CA 94041 United States				
Tel: 650-016-6300				
Contact Installer	4	16	16	1
	Number of Amiry(s)	Number of PV Panels	Number of Everiers	No. of Data Lopper(s)
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Manage Access: Manage your company's installers and their PV systems.

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stallers/Managers	Installers/Managers Vex car wavege the information of company members of from the fot below.						
Homeowners	8.No.	Name	Role	8500.05	Date Added	the backs	
		John Smith	Managar	Active	January 29, 2014	E.H	Yes Pojech
		Nick Carter	Installer	Active	January 29, 2014	C.H	View Projects
		Milch Tsai	Masager	Active	February 21, 2014	Est	View Projects
	4	James Henney	Instator.	Active	May 20, 2014	Cat .	View Projects
	5	Daniel Moore	Instator	Active	Jane 12, 2014	East .	View Projects
	5 Include	en found.					

For more information, visit/contact us at www.darfonsolar.com or pvsales@darfon.com

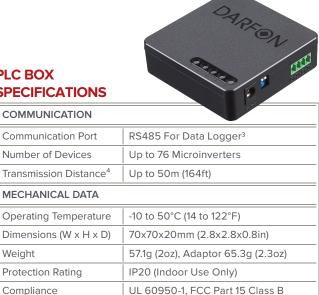
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Cloud-Based Monitoring System

DATA LOGGER SPECIFICATIONS DEVICE INTERFACE			
Uplink	Embedded 3G (dual SIM), RJ45 FE (x4)		
Communication Port	DB9 RS485 (Up to 3 PLC Boxes)		
Management Port	RJ12 RS232 (Console)		
Storage & Log	USB 2.0 (32G Max.)		
Cellular Band ¹	UMTS(WCDMA): 2100/1900/850 MHz GSM: 1900/1800/850/900 MHz		
Antenna (Detachable)	2x 5dBi (WiFi), 2x 3dBi (3G)		
MECHANICAL DATA			
Operating Temperature ²	-10 to 50°C (14 to 122°F)		
Protection Rating	IP20 (Indoor Use Only)		
Dimensions (WxHxD)	187x110x31mm (7.4x4.3x1.2in)		
Weight	0.67kg (1.5lb)		
Compliance	UL 60950-1, EN 301 489, EN 301 511, EN 301 908, EN 55022, EN 61000, FCC Part 15B/C		
POWER			
Power Supply Input	Dual 12VDC, 2A Max.		

For communication reliability, Darfon Cloud-based monitoring solution separates the communication before it reaches the service panel. The solution includes two hardware pieces: the PLC Box and Data Logger. The PLC Box is installed between the microinverters and service panel then sends information to the Data Logger. By bypassing the service panel, you avoid all the white noise and get a clean, stable signal. This latest generation of Data Logger incorporates WAN and GSM transmission for connecting to the Cloud.

To make installation faster and easier for our installers, Darfon's ComBox prewires the Data Logger and PLC Box into a junction box that is simple to install. ComBox 1C is for one circuit PV systems, whereas, ComBox 4C is for larger installations with up to 4 PV circuits. With ComBox 1C, you just need to bring the grid tie and PV conductors into the box and land them on the quick connect terminals. With ComBox 4C, you will need to install the circuit breakers you need, then land the PV and grid tie conductors. Utilizing the 1C and 4C ComBoxes, you have all the advantages of separating the PLC communications from the noisy house circuitry without the complicated wiring.



7.2W (Maximum)

12VDC, 600mA

COMBOX **SPECIFICA**

COMBOX SPECIFICATIONS			
MODEL	COMBOX 1C	COMBOX 4C	
Number of Circuits	1	Up to 4	
Current per Circuit	30A	30A	
Number of G320 (240V, 1.25A)	Up to 19	Up to 76	
Number of G640 (240V, 2.5A)	Up to 9	Up to 36	
Dimensions (WxHxD)	305x254x203mm (12x10x8in)	305x356x203mm (12x14x8in)	
Weight	3.7kg (8.2 lb)	5.7kg (12.6 lb)	

10-18 AWG, 600V

Data logger & PLC Box

Non-metallic/Type 4X

10-18 AWG, 600V

Data logger & PLC Box

FC

Non-metallic/Type 4X

Enclosure Short Circuit Rating 200A 200A Supported cellular band is dependent upon regional hardware version.

3G and Wi-Fi performance will be degraded if device's ambient temperature is above 55°C.

The maximum distance between the Data Logger and PLC Box is 1312ft (400m).

⁴ The distance from the PLC Box to the microinverter at the farthest end of the AC branch.

PLC BOX SPECIFICATIONS

POWER

Power Consumption

Power Supply Input

For more information, visit/contact us at www.darfonsolar.com or pvsales@darfon.com

Field Size Wiring (Class 1)

Integrated Monitoring Hardware

Enclosure Material/NEMA Rating