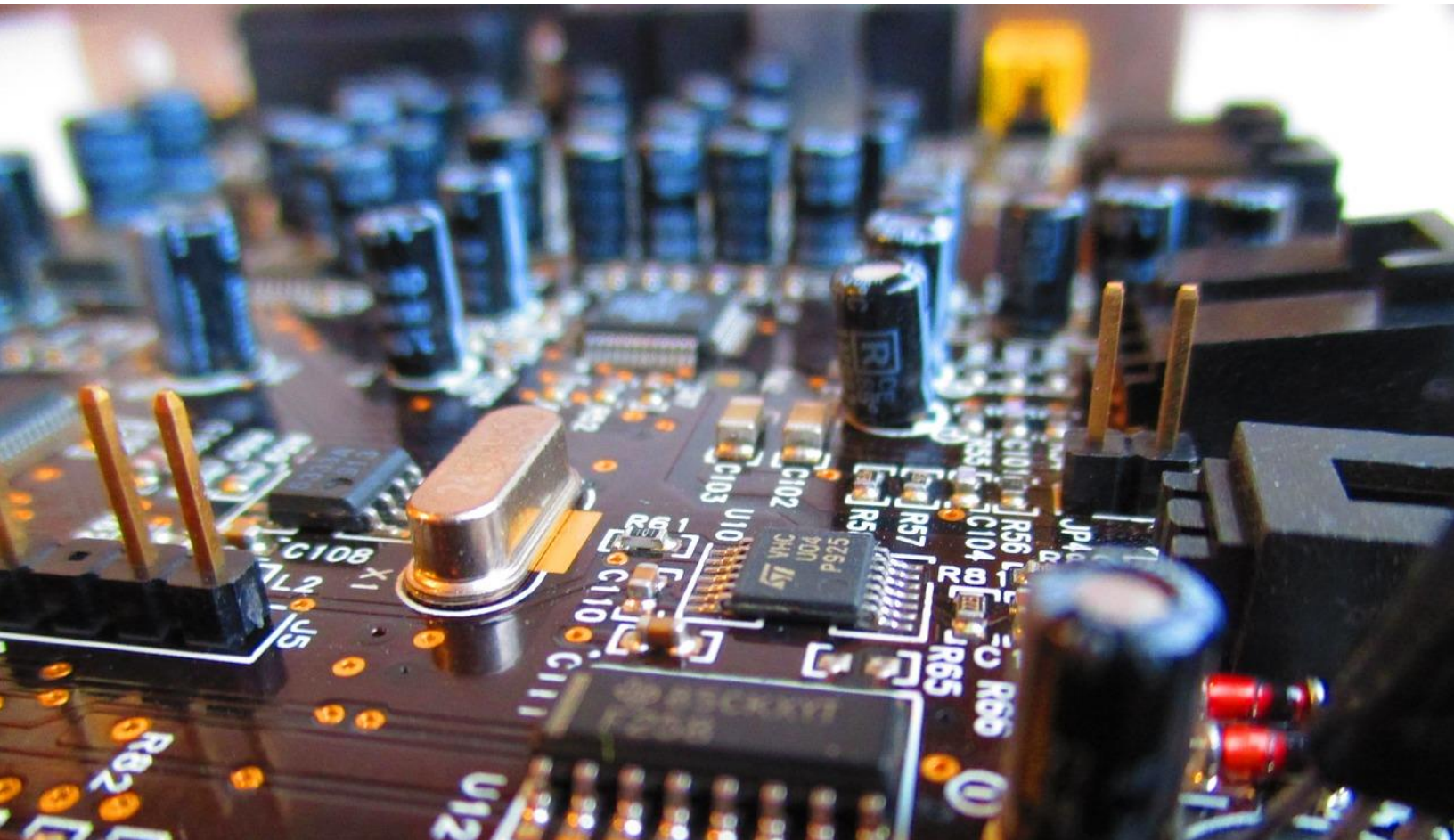




Solar PV Monitoring & Analytics

DATASHEET-DATALOGGER

TRACKSO ADVANCED WiFi-WT-70M



A product of Free Spirits **Green** Labs

A RENEWABLE ENERGY COMPANY








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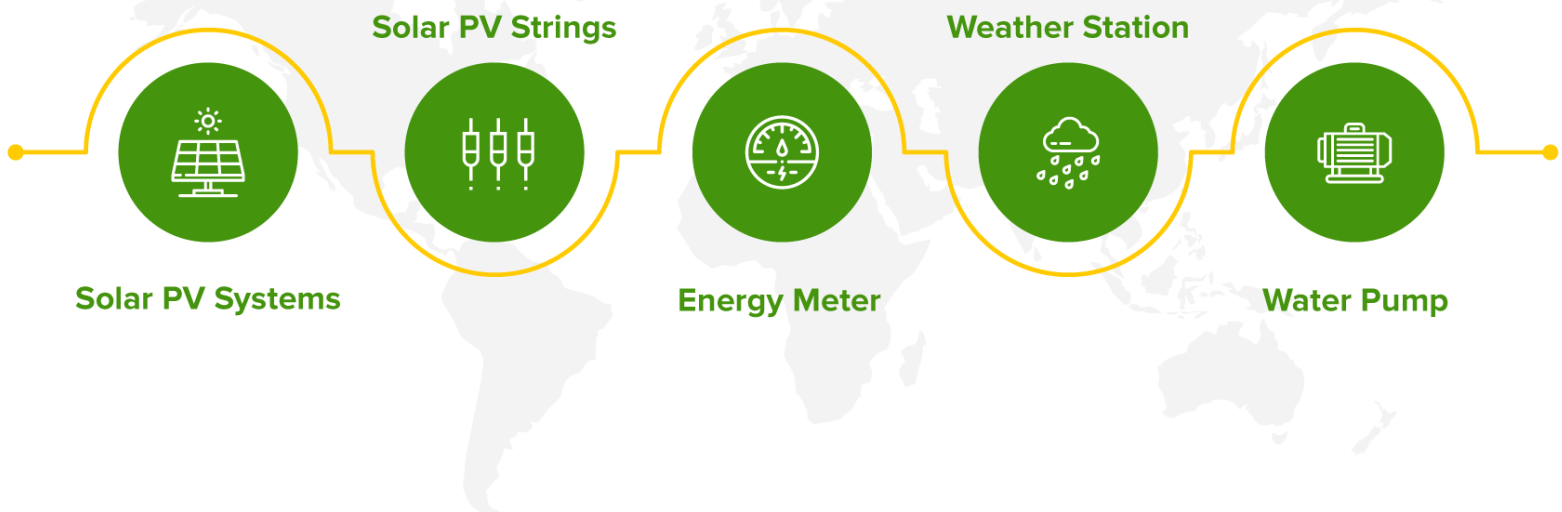
Smart IoT Data Loggers

TrackSo IoT data loggers are India's leading smart plug 'n' play gateways which can be connected with more than 100 brands of solar PV inverters, energy meters, weather monitoring stations, variable frequency drives [VFDs], string monitoring systems and all analog, digital and MODBUS enabled sensors.

- Easy to install, economical to maintain and upgrade.
- Support all major brands of inverter with Modbus RTU RS-485.
- Possible to connect different brands of inverters within a single plant.
- Stores all data to the on-board memory during internet unavailability.
- LED Indicators to identify the power, signal, Modbus connection status.
- Very low consumption of data on mobile networks

	Retrofit for all MODBUS networks		Up to 30 days of On-board data storage		Connects up to 10 slave devices
	Connectivity WiFi		Integrates with all sensors Analog 0-10V,4-20ma		Delivered with IP-65 Enclosure
	Optional Battery Backup				

Connects all assets



Specifications

Category	Component	Details
System	CPU	ARM Cortex
	SRAM	32 Kbytes
	Flash Memory	256 Kbytes
	Data Log Flash Memory	64MB (17,000 Offline Records)
	WDT (watchdog)	Yes
Modem	Interface	WiFi – 2.4 Ghz only
Serial ports	RS232 Utility port	RS-232: TxD, RxD, GND (used for device configuration and debug)
	RS485	1 x RS-485 use for communication with slave device
	Slaves	Upto 8
	Baud Rate	Supports: 2400, 4800, 9600, 19200, 38400, 57600, 115200
I/O Port (Optional)	Analog Inputs	2 x Voltage Measurement (DC): 0-10 V 1 x Current Measurement (DC): 4 -20 mA
	Digital Inputs	2 DI ports (0-24V)
Power	Operating Voltage	12VDC to 24VDC
	Supply Current	40mA at 12VDC
Mechanical	Casing	Plastic Casing
	Degree of Protection	IP 20 (Indoor)
	Dimensions (W x L x H)	100mm x 118mm x 34mm
	Installation	Wall Mounting
Environmental	Operating Temperature	-25 °C to +55 °C
	Ambient Relative Humidity	5 ~ 95% RH, non-condensing

Note:

1. UPS Power Supply for the Device is required.
2. To be installed indoors or in an IP65 Enclosure for Outdoor Installation

ADVANCED WiFi

Scan to download TrackSo Mobile App

Scan to download Installation Manuals/Videos

TrackSo WiFi Advanced
IoT for Energy Management

ANT

INV IDs:

WMS ID: BAUD: BRAND:

4-20mA	AI -	8
	AI +	7
A/DIN	A/DI-2	6
	A/DI-1	5
RS485	D -	4
	D +	3
PWR	GND	2
	+12V	1

If you face issues even after reading the installation manual/videos, kindly raise a ticket by sending an email to support@trackso.in with all details.

Pin Diagram

4-20mA	AI -	8
	AI +	7
A/DIN	A/DI-2	6
	A/DI-1	5
RS485	D -	4
	D +	3
PWR	GND	2
	+12V	1

Pin	Name	Description
8	Ai-	4-20ma Analog Current Input -
7	Ai+	4-20ma Analog Current Input +
6	AD2	Analog Voltage Input 0-10V / Digital Input 2
5	AD1	Analog Voltage Input 0-10V / Digital Input 1
4	D-	RS485 - / Data-
3	D+	RS485+ / Data+
2	GND	Ground Pin
1	+12V	DC IN - Input voltage: 12V~24V/1A.

LED Patterns

LED	NAME	DESCRIPTION
GREEN	POWER	Light when device is powered ON
RED	COM	LED Status Connection State
		Flashing (ON for 100ms and OFF for 100ms) WiFi not found
		Flashing (ON for 500ms and OFF for 500ms) Searching for WiFi Network
		Flashing (ON for 0.1s and OFF for 2.9s) Once at every 3sec Registered on WiFi
		Flashing twice at every 3sec WiFi IP Connected
		Flashing 5times Sending data on WiFi
		LED OFF WiFi Fault
GREEN	COM TX	Blink on data transmission in RS485 port
YELLOW	COM RX	Blink on data reception in RS485 port

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