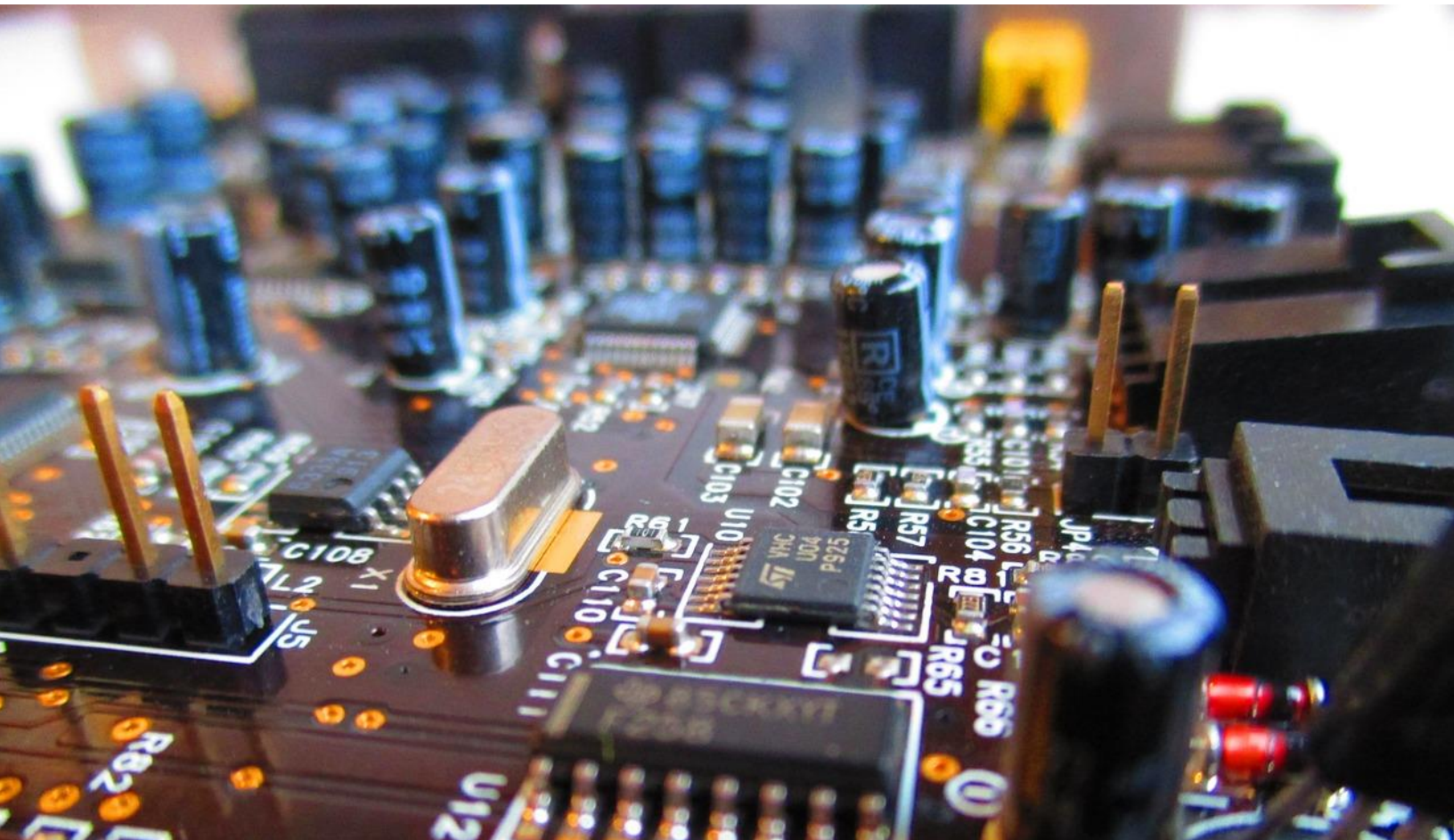




Solar PV Monitoring & Analytics

# DATASHEET – DATA LOGGER

## TRACKSO STD GPRS-WT800



A product of Free Spirits **Green Labs**

A RENEWABLE ENERGY COMPANY










[www.trackso.in](http://www.trackso.in)



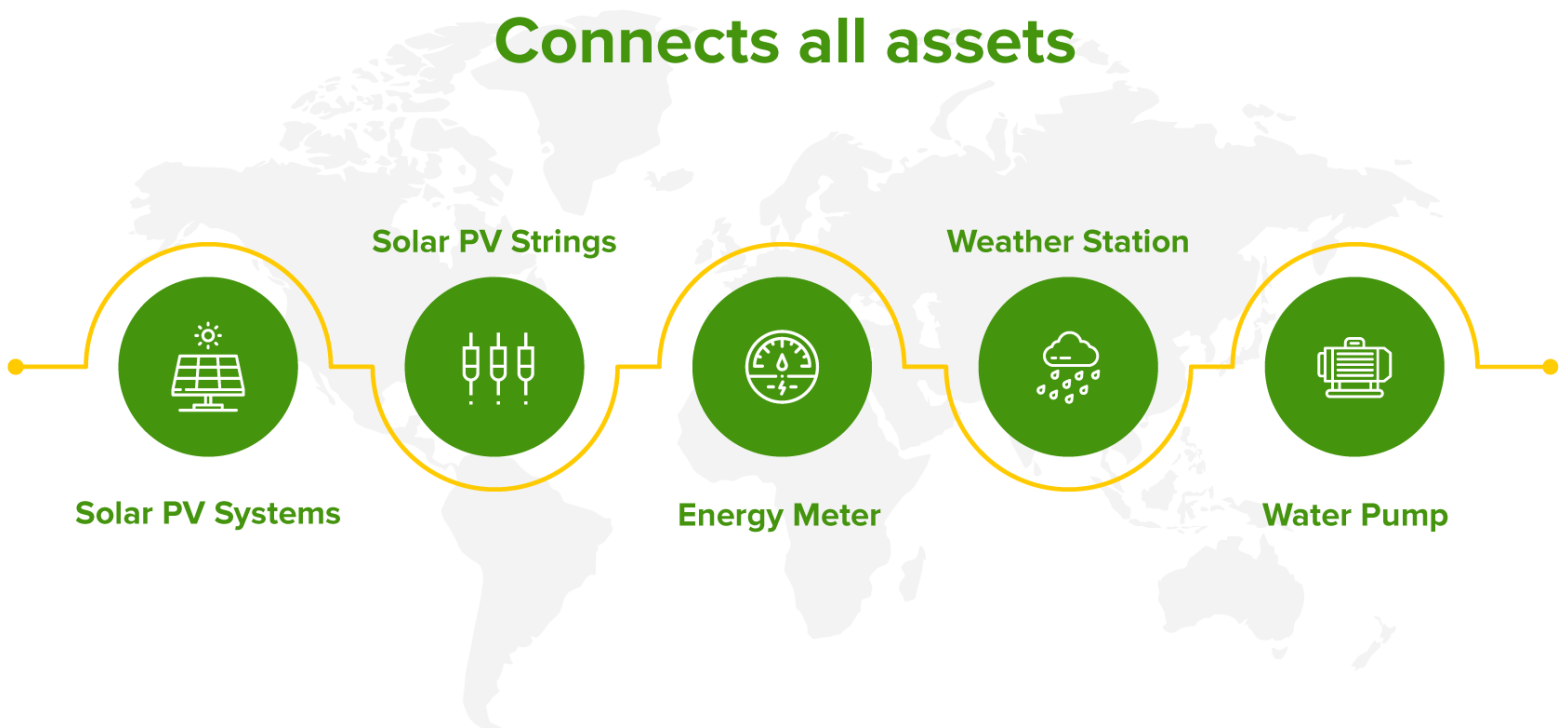
# Smart IoT Data Loggers

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 1 slave devices
	Remote configuration available Over the air		Integrates with all sensors Analog 0-10V		Delivered with IP-65 Enclosure
	SMS enabled Device Status Check		Optional Battery Backup		Connectivity SIM (2G Network)

## Connects all assets



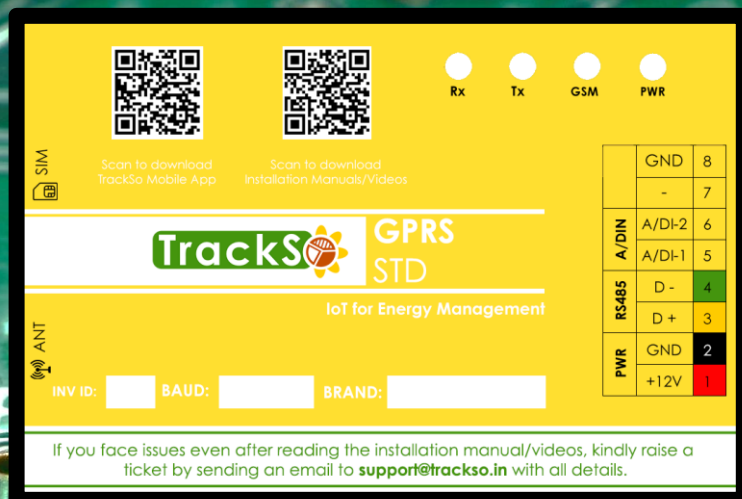
## Specifications

Category	Component	Details
<b>System</b>	CPU	ARM Cortex
	SRAM	32 Kbytes
	Flash Memory	256 Kbytes
	Data Log Flash Memory	16MB ( 4,500 Offline Records)
	WDT (watchdog)	Yes
<b>Modem</b>	Frequency Band	Quad-band: 850/ 900/ 1800/ 1900MHz
	Compliant with GSM Phase 2/2+	Class 4 (2 W @ 850/900 MHz); Class 1 (1 W @ 1800/1900 MHz)
	Coding Schemes	CS 1, CS 2, CS 3, CS 4
<b>Serial ports</b>	RS232 Utility port	RS-232: TxD, RxD, GND (used for device configuration and debug)
	RS485	1 x RS-485 used for communication with slave device
	Slaves	Upto 1
	Baud Rate	Supports: 2400, 4800, 9600, 19200, 38400, 57600, 115200
<b>I/O Port (Optional)</b>	Analog Inputs	2 x Voltage Measurement (DC): 0-5 V
<b>Power</b>	Operating Voltage	12VDC to 24VDC
<b>Mechanical</b>	Casing	Plastic Casing
	Degree of Protection	IP 20 (Indoor)
	Dimensions (W x L x H)	85mm x 100mm x 30mm
	Installation	Wall Mounting
<b>Environmental</b>	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

# STD GPRS



## Pin Diagram

	Pin	Name	Description
Inputs	AI -	8	NA
	AI +	7	NA
	DI-2	6	Not in use
	DI-1	5	Not in use
RS485	D -	4	AD2 Analog Voltage Input 0-10V / Digital Input 2
	D +	3	AD1 Analog Voltage Input 0-10V / Digital Input 1
PWR	GND	2	D- RS485 - / Data-
	+12V	1	D+ RS485+ / Data+
			GND Ground Pin
			+12V DC IN - Input voltage: 12V~24V/1A.

## LED Patterns

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

# FREE SPIRITS GREEN LABS PVT. LTD.

Sales: [sales@trackso.in](mailto:sales@trackso.in) , Support: [support@trackso.in](mailto:support@trackso.in)

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## Monitoring Sites

