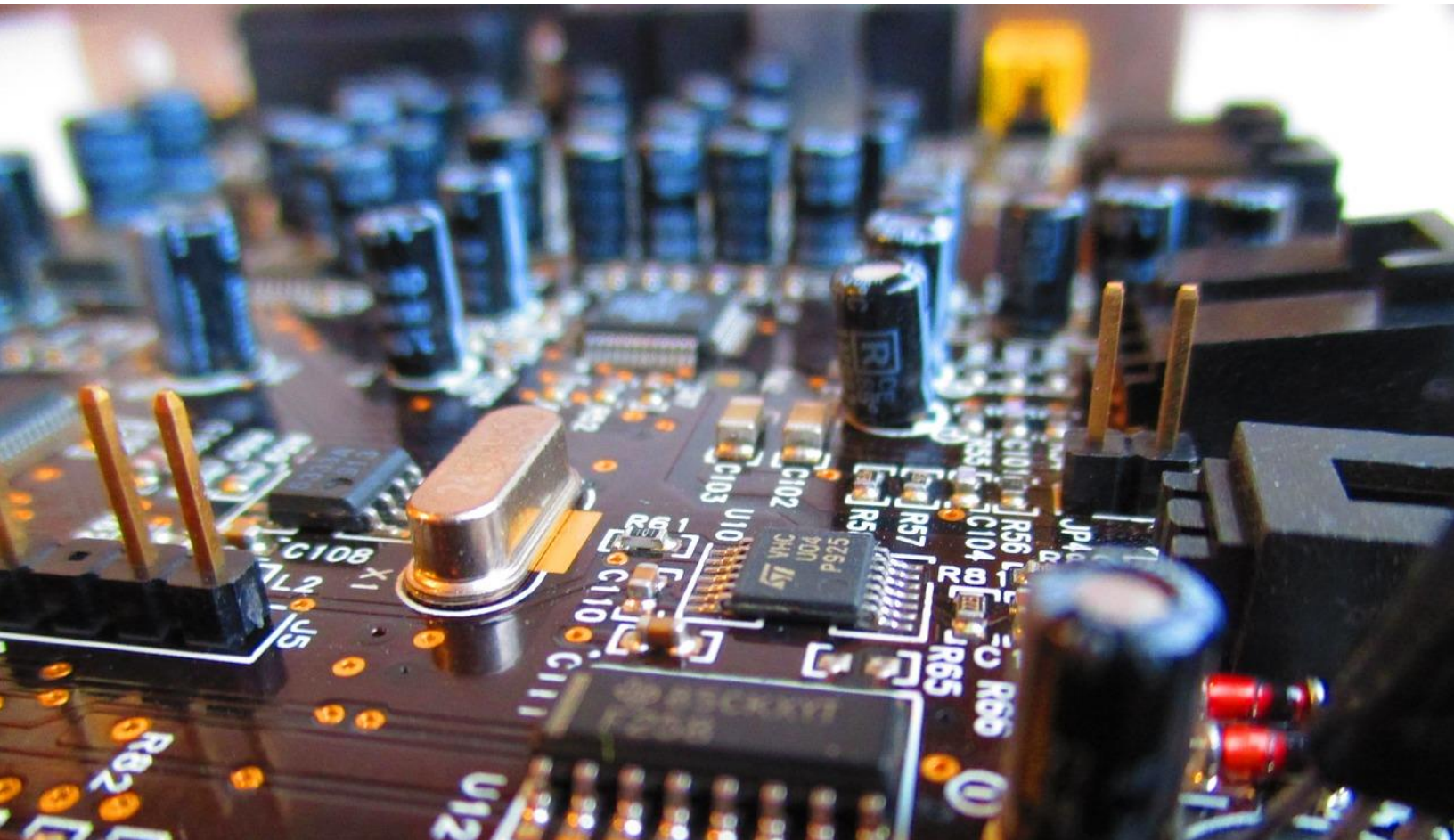




Solar PV Monitoring & Analytics

DATASHEET – DATALOGGER

TRACKSO ADVANCED GPRS-WT805



A product of Free Spirits **Green Labs**

A RENEWABLE ENERGY COMPANY

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 10 slave devices



Remote configuration available Over the air



Integrates with all sensors Analog 0-10V,4-20ma



Delivered with IP-65 Enclosure



SMS enabled Slave control ability



Optional Battery Backup



Connectivity SIM (2G Network)

Connects all assets

Solar PV Strings



Solar PV Systems



Energy Meter

Weather Station



Water Pump

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	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
Serial ports	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 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
Power	Operating Voltage	12VDC to 24VDC
Mechanical	Casing	Plastic Casing
	Degree of Protection	IP 20 (Indoor)
	Dimensions (W x L x H)	85mm x 100mm x 30mm
	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 GPRS

Scan to download TrackSo Mobile App | Scan to download Installation Manuals/Videos

TrackSo Advanced
IoT for Energy Management

ANT: INV ID: _____ 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

	Pin	Name	Description
Inputs	8	Ai-	4-20ma Analog Current Input -
	7	Ai+	4-20ma Analog Current Input +
A/DIN	6	AD2	Analog Voltage Input 0-10V / Digital Input 2
	5	AD1	Analog Voltage Input 0-10V / Digital Input 1
RS485	4	D-	RS485 - / Data-
	3	D+	RS485+ / Data+
PWR	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	GSM	LED Status Connection State
		Flashing (ON for 100ms and OFF for 100ms) SIM Card not found
		Flashing (ON for 500ms and OFF for 500ms) Searching for GSM Network
		Flashing (ON for 0.1s and OFF for 2.9s) Once at every 3sec GSM Network Registered
		Flashing twice at every 3sec GPRS IP Connected
		Flashing 5times GPRS IP Sending data
	LED OFF 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 , Support: support@trackso.in

7000+

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3500+

SOLAR SITES Rooftop & Commercial, Solar Water Pumps, Zero Export systems

Monitoring Sites

