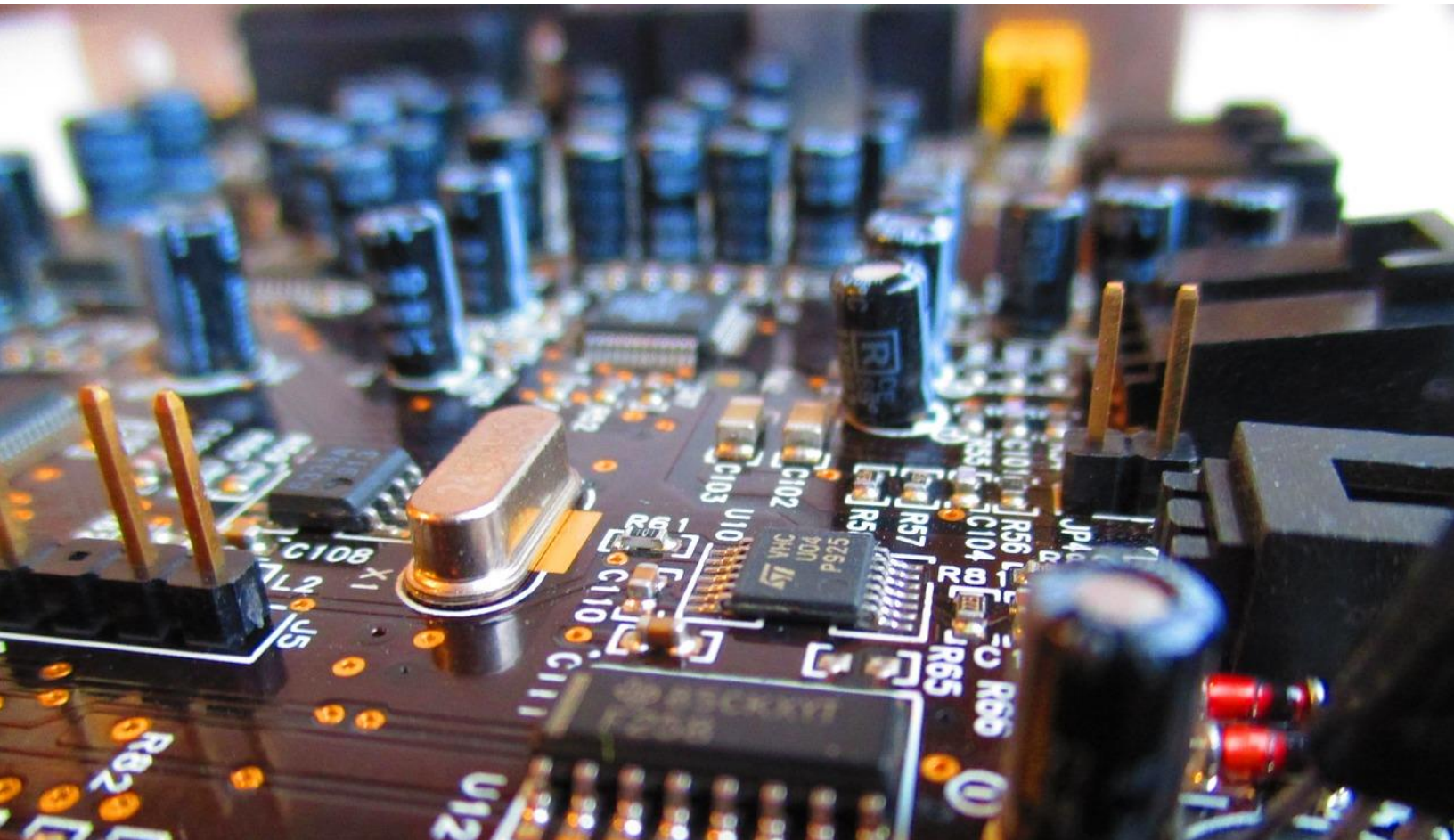




Solar PV Monitoring & Analytics

DATASHEET – DATALOGGER

TRACKSO STD 4G-WT405M



A product of Free Spirits **Green** Labs

A RENEWABLE ENERGY COMPANY









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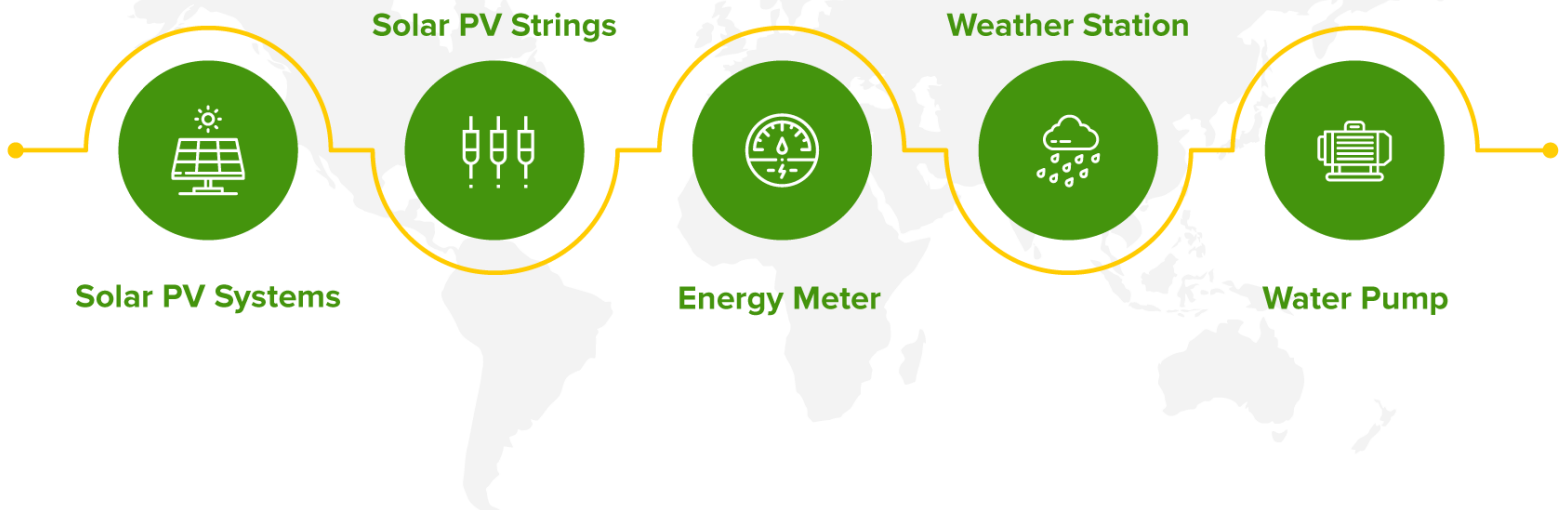
Smart IoT Data Loggers

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 1 slave devices
	Remote configuration available Over the air		Connectivity SIM (4G/3G/2G Network)		Delivered with IP-65 Enclosure
	SMS enabled Device Status Check		Optional Battery Backup		

Connects all assets



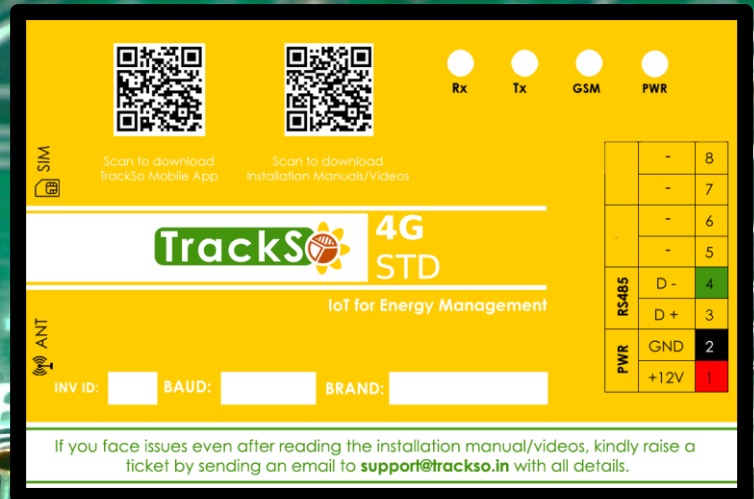
Specifications

Category	Component	Details
System	CPU	ARM Cortex
	SRAM	32 Kbytes
	Flash Memory	256 Kbytes
	Data Log Flash Memory	16MB (4,500 Offline Records)
	WDT (watchdog)	Yes
Modem	LTE	LTE FDD: Max 150Mbps (DL)/Max 50Mbps (UL) LTE TDD: Max 130Mbps (DL)/Max 30Mbps (UL)
	UMTS	DC-HSDPA: Max 42Mbps (DL) HSUPA: Max 5.76Mbps (UL) WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL)
	GPRS/EDGE	EDGE: Max 296Kbps (DL)/Max 236.8Kbps (UL) GPRS: Max 107Kbps (DL)/Max 85.6Kbps (UL)
	Transmitting Power	Class 3 (23dBm±2dB) for LTE FDD Class 3 (23dBm±2dB) for LTE TDD Class E2 (27dBm±3dB) for EDGE 900MHz Class E2 (26dBm±3dB) for EDGE 1800MHz Class 4 (33dBm±2dB) for EGSM900 Class 1 (30dBm±2dB) for DCS1800
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 1
	Baud Rate	Supports: 2400, 4800, 9600, 19200, 38400, 57600, 115200
I/O Port (Optional)	Analog Inputs	For bulk orders of MOQ:200 equipment can be supplied with 2 no. of Analog (0-10V) / Digital Input on pin 5 & 6
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

STD 4G



Pin Diagram

			Pin	Name	Description
	-	8	8	NA	Not in use
	-	7	7	NA	Not in use
	-	6	6	NA	Not in use
	-	5	5	NA	Not in use
RS485	D -	4	4	D-	RS485 - / Data-
	D +	3	3	D+	RS485+ / Data+
PWR	GND	2	2	GND	Ground Pin
	+12V	1	1	+12V	DC IN - Input voltage: 12V~24V/1A.

Note: For bulk orders of MOQ:200, equipment can be supplied with 2 no. of Analog (0-10V) / Digital Input on pin 5 & 6

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.

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