



Solar PV Monitoring & Analytics

DATASHEET

DATALOGGER KUSUM COMBO



ACCURATE MONITORING

Real-time data for better performance



EASY INSTALLATION

Quick and hassle free setup



DEDICATED SUPPORT

Timely assistance whenever you need

A product of
Free Spirits Green Labs Pvt. Ltd.
A Renewable Energy Company

www.trackso.in
support@trackso.in

Kusum Data Logger

TrackSo Kusum Data Logger 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**



**SMS enabled
Slave control ability**



**Up to 20 days of
On-board data storage**



**Remote configuration available
Over the air**



**Optional
Battery Backup**



**Connects up to
9 slave devices**

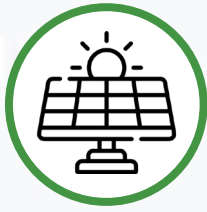


**Delivered with
IP-65 Enclosure**

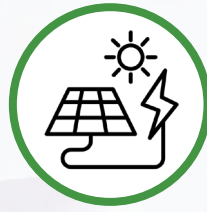


**Connectivity
SIM (4G/3G/2G Network) & LAN**

Connects All Assets



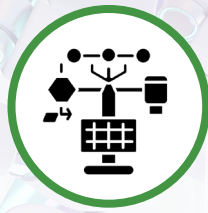
✓ Solar PV Systems



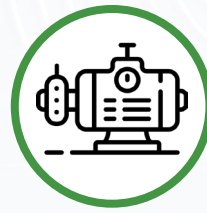
✓ Solar PV Strings



✓ Energy Meter



✓ Weather Station



✓ Water Pump

**ADVANCE
KUSUM COMBO
WT-4260DM**



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	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
	Interface	RJ45 Ethernet 10BASE-T or 100BASE-TX (Auto)
	Speed	10/100 Ethernet Half/ Full Duplex (Auto negotiating)
Serial Ports	USB Utility port	use for device configuration and debug
	RS485	1 x RS-485 use for communication with slave device
	Ethernet	Allows Modbus TCP communication
	Slaves	Upto 9
	Baud Rate	Supports: 2400, 4800, 9600, 19200, 38400, 57600, 115200
I/O Port (Optional)	Digital Inputs	2 DI ports (0-24V)
Power	Operating Voltage	12VDC to 24VDC
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

Notes:

1. UPS Power Supply for the Device is required.
2. To be Installed Indoors or in an IP65 Enclosure for Outdoor Installation.
3. Use Crossover Ethernet Cable with the Logger.

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) GSM Network Registered
		Once at every 3sec
		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

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Inverters, Sensors, Meters, Water Pumps

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Monitoring Sites

