

## TMS1221OGSS04 [ SNMP Power Monitoring Off-Grid Solar System ]

### APPLICATIONS :

- DC Energy Monitoring System
- Solar Power Off-Grid/On-Grid System Monitoring
- Charging & Discharging Battery Monitoring System
- PV Charge Controller Monitoring System

### FEATURES :

- Direct Communication for Monitor of Solar Charge Controller
- For OUTBACK via RJ-45 rear case (CC1 & CC2)
- For MORNINGSTAR via RJ-45 (Switch HUB) front case



### TECHNICAL SPECIFICATIONS

Power Input (nominal)	48VDC/2A
Power Input (range)	36V – 60V
CPU	Quad-core 64-bit 1.5GHz Cortex-A53 processor
Memory (SDRAM)	1 Gb
External Storage	16 Gb
Ethernet Network (CPU)	1 Port of 10/100/1000Base T
Ethernet Network (Switch HUB)	5 Port 10/100Base
Protocol	<ul style="list-style-type: none"> <li>- SNMP, HTTP, ICMP, MODBUS</li> <li>- Web browser with multi-level security access to read status and configuration</li> <li>- Can store data log for 8 months at intervals of 5 minutes</li> </ul>
Digital Input	2 port (door open and fan fail) dry contact relay
Analog Input	<ul style="list-style-type: none"> <li>- Bus Voltage (0.0 – 60.0 Volt)</li> <li>- 2 Port Current Sensor (with internal Shunt @ max. 25A)</li> <li>- 2 Port MCB status</li> </ul>
Digital Output (Relay Driver for LVD contact)	2 Port ; can be set to disconnect and reconnect voltage
Battery Monitoring	<ul style="list-style-type: none"> <li>- 1 Port ; 2-wire cable via RS485</li> <li>- Can be connected to a maximum of 9 slave (battery pack)</li> </ul>
Charge Controller Monitoring	2 Port ; RJ-45 Connector (rear case) (only for Outback Solar Charge Controller)
Dimensions	1RU – 19" Mounting 115(W) mm
Weight	0.2 kg
Other	
MTBF (Lifetime)	52,5K Hours @ 25°C

## TMS1221OGSS04 [ SNMP Power Monitoring Off-Grid Solar System ]

### Solar Power System Monitoring

Tue, 23 Nov 2021 13:55:23

Site ID: BL0001  
 Site Name: IGR BALARAJA  
 Address: Baloraja Barat  
 IP Address: 192.168.137.100  
 Net Mask: 255.255.255.0  
 Gateway: 192.168.137.1

Save | Refresh | Reload

### Solar Power System Monitoring

Tue, 23 Nov 2021 13:52:50

No.	Date & Time	Measurement				CC1				CC2			
		BTS V	MPPT V	BTS A	MPPT A	IN	OUT	IN	OUT	IN	OUT	IN	OUT
1	2021-11-23 13:50:00	51.9	0	0	0	0	0	0	0	0	0	0	0
2	2021-11-23 13:25:00	51.9	0	0	0	0	0	0	0	0	0	0	0
3	2021-11-23 13:25:00	51.9	0	0	0	0	0	0	0	0	0	0	0
4	2021-11-23 13:25:00	51.9	0	0	0	0	0	0	0	0	0	0	0
5	2021-11-23 13:20:00	51.9	0	0	0	0	0	0	0	0	0	0	0
6	2021-11-23 13:20:00	51.9	0	0	0	0	0	0	0	0	0	0	0
7	2021-11-23 13:10:00	51.9	0	0	0	0	0	0	0	0	0	0	0
8	2021-11-23 13:25:00	51.9	0	0	0	0	0	0	0	0	0	0	0
9	2021-11-23 13:25:00	51.9	0	0	0	0	0	0	0	0	0	0	0
10	2021-11-23 12:55:00	51.9	0	0	0	0	0	0	0	0	0	0	0
11	2021-11-23 12:50:00	51.9	0	0	0	0	0	0	0	0	0	0	0
12	2021-11-23 13:15:00	51.9	0	0	0	0	0	0	0	0	0	0	0

### Solar Power System Monitoring

Tue, 23 Nov 2021 13:50:53

Parameter	Value	Unit
Bus Voltage	51.9	V
BTS Voltage	0	V
MPPT Voltage	0	V
BTS Current	0	A
MPPT Current	0	A
Temperature	29.3	°C

### Solar Power System Monitoring

Tue, 23 Nov 2021 13:54:17

Digital Input

PORT	STATE	ALARM
D1 - FAN	Enable	Open
D2 - DOOR	Enable	Open

LVD

PORT	DISCONNECT	RECONNECT	UNIT	STATE
LVD 2	40	40	V	Enable
LVD 1	40	40	V	Enable

Save | Refresh

### Solar Power System Monitoring

Tue, 23 Nov 2021 13:48:31

Charge Controller 1			Charge Controller 2		
Parameter	Value	Unit	Parameter	Value	Unit
PV Voltage	51	V	PV Voltage	0.0	V
SCC Voltage	51.81	V	SCC Voltage	0.0	V
PV Current	0.0	A	PV Current	0.0	A
Charge Current	0.1	A	Charge Current	0.0	A
SCC State	night		SCC State	Unknown	
Amp Hours	424.8	Ah	Amp Hours	0.0	Ah
Kilowatt Hours	20.0	kWh	Kilowatt Hours	0.0	kWh

### Solar Power System Monitoring

Tue, 23 Nov 2021 13:52:07

Parameter	Pack1	Pack2	Pack3	Pack4	Pack5	Pack6	Pack7	Pack8	Pack9	Unit
Voltage										V
Current										A
Remain Capacity										Ah
Cell Temp										°C
Env Temp										°C
SOC										%

### Sensor PVI VOLTAGE

29 V

Last Message: OK

Overview | Graphs | Historic Data | Log | Settings | Notification Triggers | Comments

Last Scan	Last Up	Last Down	Uptime	Downtime	Sensor Type	Interval	ID
97%		9 d 9 h	81,4340%	18,5660%	SNMP Custom	5 m	32406

Value: 29 V

Live Graphs: 10 hours

