REMOTE TERMINAL UNIT
(RTU DEVICE)

INTELLO

Industry leading, microcontroller based GSM device to log data from remote installations.

- Industry standard universal compatibility
- Remote configuration for ease of use
- Built in power supply for fail-safe operation

REMOTE TERMINAL UNIT

Remote Terminal Unit (RTU) is a GSM and Microcontroller based device which monitors performance, status and faults at remote solar installations. It facilitates you with round the clock access to your assets from anywhere.

INTELLO RTUs are equipped with rich features like industry standard based universal compatibility, ease of installation, wireless firmware upgrades and remote configuration making them very smart and convenient devices. RTU-B-1S-2D can connect with 32 Device for data collection and uploading to server.

Inbuilt Power Source

Remote Configuration Possible

Plug in 32 Inverters on a Single Device

J1

V+ | SIG1 | SIG2 | SIG3 | SIG4 | CO

PWR ▶
GSM ▶
STR ▶
MDB ▶

J4

A- | B+ | CO
RS - 485

Category	Sub Category	Details
System	CPU	ARM Cortex 32 Bit Microcontroller @ 48MHz
	Data Memory	50,000 Logs (various with device and data).
	Watch Dog Timer	Yes
	RTC	Inbuilt RTC- Updatable via GSM Network itself, from Server via GPRS
GSM	Frequancy Band	GSM/GPRS850/900/1800/1900MHz
Communication Ports	RS-485	• Modbus Protocol for communication with Slave devices like Inverters • Electrically Isolated for extra protection • Upto 32 devices can be connected to this port in a daisy chain fashion provided each device has different device ID • Supported baud rate from 2400 - 115200 bps
Sensor Ports	4 Channel Analog/Digital	4 ports which can be used for taking inputs from various types of sensors. Type of sensor interface needs to be specified at the time of ordering. Following interfaces can be selected on each port: • 4-20 mA Sensors that can be connected to these ports are: • Wind Speed • Solar Radiation • Panel Temperature • Ambient Temperature.
Input Power	Operating Voltage	220 V AC
Mechanical	Casing	Plastic Casing
	Dimensions	125mm x 170mm x 66mm (W x L x H)
	Mounting	Wall Mount/Panel Mount Options
Environmental Operating Limits	Temperature	-25 ℃ +55℃
	Solar Radiation	0-1800 W/m^2
	Wind Speed	0-250 Km/Hr
Working(Brief)	Slave Device Communication	Slave devices like Inverter will be connected to the RTU via RS-485. RTU will act as Master and poll data from devices for which the RTU is configured. Each slave device can have multiple and different query strings. Captured data will be stored with time stamp and sent to the server at desired frequency.
	Configuration	RTU can be configured using RS-485 and also over the GPRS network thought server. Basic configurations like Server IP and Port can also be configured via SMS.
	Firmware Updates	No need to change device or have someone being physically present for any software/firmware upgrades. RTU is fully capable to get firmware and configuration updates remotely via GPRS.

Terminal	Name	Description
1	V+	Common Positive Supply for Analog/Digital Inputs. Nominal Power rating 2V/100mA.
2	S1G1	Analog 1 Input
3	S1G2	Analog 2 Input
4	S1G3	Analog 3 Input
5	S1G4	Analog 4 Input
6	CO	Common Ground for Analog/Digital Inputs
7	Input	Mains Live
8	Input	Mains Neutral
9	RS485 A-	Master RS 485 A-
10	RS485 A+	Master RS 485 B+
11	RS485 COM	Master RS 485 Common

LED Color	Name	Description
GREEN	MDB	RS 485 Network Indication
BLUE	STS	GSM Status Indication
YELLOW	GSM	GSM Network Indication
RED	PWR	Power Indication

Product Replacement Warranty

One (1) Year

Box Dimensions

125X170X66mm

Ingress Protection

IP65

Flammability Test

UL94

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