

DLMS AMR -AMI SOLUTIONS

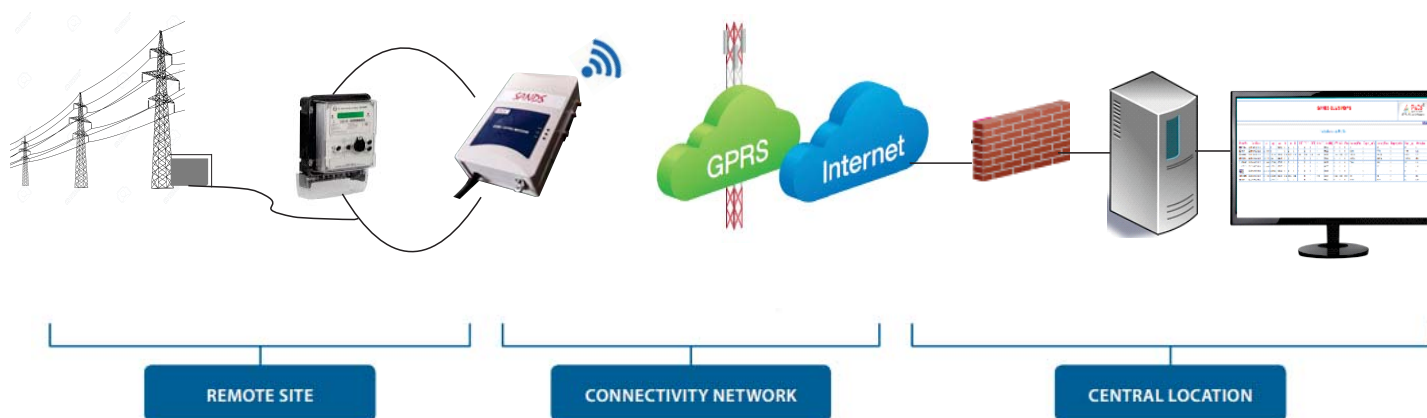
SANDS DLMS AMR solution is an optimized concept based on different communication like IR, IrDA, LPRF(Zigbee) 2.4GHz 865Mhz (DLMS), GSM /GPS Modem (DLMS) MADS & edge for Automatic /Remote communication



GPRS GSM MODEM



DATA CONCENTRATOR UNIT



SANDS®



TECHNICAL SPECIFICATION

GPRS /GSM MODEM

HARDWARE

- 32Mbit for data logging
- Inbuilt three phase VAC power supply, operates also with single phase.
- Battery for outage notification(Optional)
- 50–440 VAC
- 5W Peak
- Real time clock
- HW watchdog
- Metal casing /ABS casing
- Diagnostic LEDs: Power, Run, Signal, Network, Meter
- Temperature ranges: –25 to +75 °C –40 to +85 °C (storage)
- Humidity 5 to 95 % RH
- RS232, Female DB9 connector.
- Speed 1200-115200 bits/sec Default-57600, hardware flow control OFF

SOFTWARE

- TCP, UDP, HTTP, FTP, MQTT
- Store & Forward with FTP / Transparent real time
- Dial-on-demand & Schedule
- SANDS MDAS real-time data management system with remote configuration GUI.
- DLMS / COSEM compatible meter data input.
- MDAS Compatible with Windows OS

SALIENT FEATURES

- Automatic over the air configuration and firmware updates(FOTA).
- Standalone AMR performance & Automatic profile download at specified intervals.
- Compatible with various standard existing meters directly interfaced
- Instantaneous Tampering and Outage alerts.
- Automatic GPRS connection(no AT commands required)and watchdog for reliable Communication
- Compatible with COSEM / DLMS.
- Compatible with all standard 2G / 3G / 4G SIM cards

CONFIGURATION & MANAGEMENT

- Conventional console interface (via serial console).
- SANDS AMR devices can be remote configured and SW updated from SANDS FTP Server.
- The AMR modem can also be configured remotely through SMS commands

NETWORK INTERFACES

- 3/1.8V SIM Interface
- Internal SIM card holder
- Accepts standard SIM card / Micro

DATA CONCENTRATOR UNIT

HARDWARE

- Power : 100 V -270 V(AC/DC)
- Over current protection
- Power reverse polarity protection
- RTC with Battery backup.
- Two RDS232 interface
- One - Ethernet ,Modbus, USB-Serial

SOFTWARE

- TCP, UDP, HTTP, FTP, MQTT
- Store & Forward with FTP / Transparent real time
- Dial-on-demand & Schedule
- SANDS MDAS real-time data management system with remote configuration GUI.
- DLMS / COSEM compatible meter data input.
- MDAS Compatible with Windows OS

SALIENT FEATURES

- Collect data automatically from Max 32 slaves through RS485
- Each slave is awarded with unique slave ID
- Lan port for communication with PC
- Used as IOT Gateway.
- Compatible with COSEM / DLMS.

CONFIGURATION & MANAGEMENT

- Configuration through FOTA
- SMS Configuration as available.

NETWORK INTERFACES

- 3/1.8V SIM Interface
- Internal SIM card holder
- Accepts standard SIM card / Micro

APPLICATIONS

- Automatic Meter readings (Electricity, Gas, Water meters)
- Energy Auditing
- Power Distribution and automatic load control.
- Home automation Tariff Switching and automatic load control
- Tariff Switching and automatic load control
- Industrial Automation

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Product development is continuous process-Specification subject to change

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