

GSM/GPRS Smart Alert Gateways, Model SA M / SA MV / SA ME / SA8 MVE



Remote Monitoring, Remote Diagnostic and Predictive maintenance is the need of the hour. System upkeep time is vastly improved if the key decision makers are immediately alerted on failures occurring in a system. Change in process conditions like increase or drop in Temperature, Pressure, Flow etc or a Solenoid valve / circuit breaker trip or a forced entry in your house can be immediately alerted via SMS/Email

SAN designed a GSM/GPRS based embedded Alert system catering to various applications

SA MV extracts Alarm conditions from Modbus port & relay them as SMS and Voice. SA ME model supports email for reporting alarms.

General Specifications

- Quick SMS/Email alerts from field inputs
- RS485 interface with Modbus RTU support
- For every input, unique SMS and prerecorded Voice message or email can be sent to reporting numbers
- 10 numbers for SMS reporting and 10 separate numbers for voice reporting can be configured.
- 10 email IDs can be configured for email alerts.
- Voice reporting numbers can be landline or mobile numbers
- 10 seconds voice message recording for each low and high Modbus alert
- Voice message recording through mobile phone call
- Buzzer for Audible status
- Periodic and pre-configured real time update of Modbus inputs to all SMS reporting numbers.
- Status of all Modbus inputs with instantaneous value can be read at any time by sending SMS.
- Low and High alert message text is configurable and max 30 bytes.
- Configuration via preformatted SMS.
- Built in RTC

Technical Specification

- Modbus RTU : RS485, 2 Wire, Master Mode
- Terminals : Screw type connector
- SMS : 160 Characters. 50 Modbus parameters ,100 alert SMSs
- Email : 160 Characters. 50 Modbus parameters ,100 alert Emails

Indications

LED Indication : 3 LEDs for network strength, 1 Power ON.1 Tx-1 Rx LED for RTU

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Accessories

Antenna : SMA Connector. High gain antenna available as option
SIM & Holder : Push Type
Power supply : 24V DC, 1A , Range 18V – 36V DC.
Terminals : Screw type connector
Power : 2W

Mechanical

Enclosure : Metallic Enclosure with DIN rail mounting
Dimension : 119 x 119 x 36 mm for enclosure (Excluding antenna)

Environmental Conditions

Operating Temperature : -35° to 80°C
Relative Humidity : 90 % Rh non condensing

Ordering Information

Ordering Code	Description
SA M	2G Modbus Master Port, SMS only
SA MV	2G Modbus Master Port, SMS and Voice
SA ME	2G Modbus Master Port, Email only
SA8 MVE	4G Modbus Master Port, SMS, Voice, Email