Alert Gateway

TAiKO
NETWORK COMMUNICATIONS

AG1000-01

AG1000 SMS Alert Gateway

SMS alert gateway is designed as a cost effective remote system alert device. It monitors up to 8 dry contacts and 4 relay outputs. User-defined SMS is sent to pre-configured hand phone numbers when predefined alarm condition happens. These pre-configured hand phone users can be any technicians or engineers who are responsible to handle corresponding alarm. With the aid of this gateway, the alarm condition brings attention to responsible personnel immediately. Besides it allows those hand phone users to trigger any relay output by using SMS. The relay output can be connected with alarm indication device, such as alarm siren, and others.

There is a built-in microprocessor chip running on a real-time operating system. It takes immediate response to any change in both inputs and outputs condition. A GSM modem is embedded in the gateway, user has to subscribe a SIM card for the gateway. The gateway can be installed in any location under GSM coverage.

A software program is provided for configuring the gateway. Alert settings, such as hand phone numbers, alert SMS message, and alarm condition is configurable through the program. The program utilizes Ethernet connection therefore user can configure the gateway through any computer connected within LAN. The detailed functions provided and operation conditions were covered in the following sections of the manual.
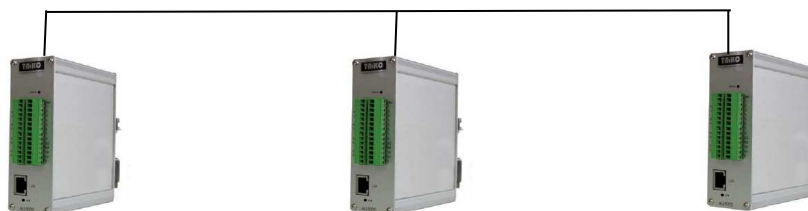
Features

- To monitor 8 dry contacts and trigger 4 relay outputs, so total 12 alarm points available
- With Extension modules AG1000-10, total of up to 24 Digital Input and 12 Output can configure and monitor
- User-defined alarm condition (normally close or open), alarm and recovery SMS message for each point
- Maximum 10 hand phone numbers can be assigned for each point

- 1 optional reminder of alarm SMS applies for all alarming level under each point
- Flexible grouping of alarming level (first, second and subsequent group of hand phone number to be notified once alarm happens) with adjustable interval delay
- User-friendly SMS service, such as requesting current status, acknowledging alarm condition of any points and triggering relay outputs

- User-defined name is assigned for each Point
- Administrative right can be assigned for a particular group of hand phone users. It includes remote adding, deleting and exchanging of hand phone numbers, activating alarming of particular point
- Events data logging
- Configuration can be done remotely through LAN connection

Expanding DI/DO

Extension module AG1000-10 is available for expanding more digital inputs and outputs. One AG1000-10 can expand another 8 digital input and 4 digital output. Up to 2 AG1000-10 can be added bringing total of 24 digital inputs and 12 digital outputs to be monitored

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Applications

Specifications

Ethernet Connectivity :

- Speed: 10Base-T (RJ45 port)

GSM Standard :

- Antenna gain: 2.15dBi (JW-X-003) / 3dBi (JW-X-010)
- Bandwidth: Dual-Band UMTS/HSPA+ 850/1900MHz Quad band GSM 850/900/DCS1800/PCS1900 MHz

Environment :

- Operating Temperature: 10ºC – 50ºC
- Operation Humidity: 5% – 90% , Non-condensing

Power Supply :

- Supply Voltage: 7V to 30VDC
- Current drawn: 180mA (max)
- Power consumption: 1.2Wdc at 12 VDC
- Connection: Screw terminal

Contact Rating :

- Inputs: 8x Dry contact inputs such as
  - ❖ Relay Contact
  - ❖ TTL signal

- Outputs: 4x Relay output as follows
  - ❖ at 230Vac/0.5A typical 3.0x105 operations
  - ❖ at 6Vdc/0.1A typical 2.0x106 operations
  - ❖ at 30Vdc/1A typical 5.0x105 operations
  - ❖ at 30Vdc/2A typical 1.0x105 operations

General Information :

- Size:130mm x 40mm x 120mm (D X W X H)
- Weight: 460g
- Diagnostic LEDs: Link/Act signal Installation Method: 35mm Din-Rail, panel mount

* Specifications subject to change without notice (Rev 4.0)

Order Information

Model	Description
AG1000-01a	SMS Alert Gateway 8 DI/4DO (support 3G network)
AG1000-10	Extension Module 8DI/4DO