

CA-GSM-1 Alarming Unit with GSM Communication

The **CA-GSM-1** alarming unit is designed to supervise and monitor conditions in livestock interiors and inform the user with **GSM** communication system by sending him messages (**SMS**) or calling (**CLIP**) indicated phone numbers at abnormal situations (alarm events). Using the **GPRS** communication facility one can set remotely the unit operation parameters and logs the operation history. To the unit some **sensors** of temperature, humidity and other substances can be connected, for instance sensors of ammonia or carbon dioxide concentration. Readings can be taken remotely (by SMSs), so **checking** the condition of interoperating devices and **control** process can be carried on in the same way.

The **CA-GSM-1** alarming unit interoperates with **SIM** card of any operator and this allows to select the best communication conditions and optimum costs.

The unit is equipped with a **230V incorporated buffer power supply pack together with a battery**, and this makes possible the unit to operate even at mains failure. The battery charging and check system assures its long-term operation and it sends alarm signals after faults occurrence.

Unit Equipment Components:

GSM 900/1800MHz modem enabling operation with any subscription network or with pre-paid card.

One 0...10 V input, eight bistable inputs (configuration: 4-NO/NC/EOL/2EOL, 4 NO/NC).

Four bistable outputs (one high-current with 1 A electronic protection, the others of OC 100 mA type) one relay output (24 V, 200 mA, contacts NO, NC, CV).

Two 0...10 V (5 mA) outputs.

A bus for JOTAFAN TEMP-201 digital temperature sensors (with the possibility of connecting up to four sensors).

Two RS-485 buses for external devices, e.g. RHT-01 sensor, expansion modules, PC, USB socket for the connection of PC.

A buffer power supplier with the control of operation parameters interoperating with a 12 V service-free lead-acid battery, incorporated a 2.3 Ah battery.

Unit Characteristics:

Possibility of programming up to eight phone numbers (and an additional service number).

Two independent access passwords: for users and maintenance crews.

Free determining of both input and output names used in SMS messages (up to 20 characters, no Polish fonts)

Free determining of both input and output names used in SMS messages (up to 160 characters, no Polish fonts) with the possibility of sending current parameters such as temperature, humidity, the status of inputs, outputs, meters, etc., of automatically set values, programmable communication test, and unit status.

Independently set alarm thresholds for temperature, humidity, and 0...10 V input.

The possibility of acquiring information on the account balance of the pre-paid card and setting a reminder of its expiration date.

Extended self-diagnosis: the check of power supply parameters, GCM modem status, etc.

The visual signalling of the unit status: power supply, communication, signal level, alarms.

Operation history logging with the possibility of taking readings remotely (GPRS).

The remote setting of unit parameters, possible the remote updating of software.

