



# mGPRS

## ALARM PANEL COMMUNICATOR OVER GPRS (GSM DATA NETWORK)

### GENERAL

The mGPRS is a simple communications device that allows the transmission of alarms generated by a conventional alarm panel through the GSM data network, called GPRS (IP communication over the cell phone network). At the same time, the mGPRS module keeps the standard telephone line as a backup mechanism. Designed to work with most of the installed bas of alarm panels (burglar and fire), the mGPRS allows for a faster and more economic alarm transmission, improving response times, decreasing costs and offering value added features such as the supervised line functionality that allows the central station to detect if any of the alarm panels go off-line. At the central station side, Telsec has designed an IP receiver, the VisorALARM, which will integrate seamlessly into conventional central station architectures.

The mGPRS works almost identically to Teldat's mIP unit (communicator module for IP networks) but uses the wireless GSM/GPRS network to transmit the alarms from the alarm panel. Both units, the mIP and the mGPRS work with Teldat's VisorALARM IP receiver.

### FEATURES

- **Panel compatibility:** Allows any Contact-ID alarm panel to transmit alarms over GSM using GPRS IP networks.
- **Fast alarm transmission:** (less than 1 second transmission time) for better response times to burglar and fire alarms.
- **Works over GSM Networks,** using both GPRS and SMS communication channels.
- **Does not require a public IP address.**
- **High redundancy configurations:** Supports alarm transmission over both GPRS and SMS. All signals will be sent through SMS should the GPRS become unavailable.
- **User programmable TCP/UDP port** for flexibility and compatibility with firewalls and other network security components.
- **Telephone line backup:** Keeps the telephone line, if connected to the mGPRS module, as a backup option when the GPRS connection becomes unavailable. If the GPRS connection also became unavailable, it will send the alarm through SMS.
- **Encryption (RC4 algorithm):** All alarm and line supervision data sent to the receiver is encrypted using an RC4 encryption algorithm.
- **Low power consumption:** uses 30mA while in idle state and 260mA when transmitting and alarm.
- **Wall mount enclosure available:** The mGPRS can be installed inside the alarm panel or inside its own wall mount enclosure.



Figure 1: mGPRS wireless alarm communicator

### INSTALLATION

- Two configuration methods available:
  1. Through a telephone set, using the key pad.
  2. Through SMS messages.
- Registration process with the VisorALARM IP receiver at the monitoring station allows for automatic configuration of most parameters. For most installations, the only required parameters are:
  - Receiver IP address
  - UDP port to use to communicate with the receiver
  - Account identification number (CID)
  - Installer password: to register the mGPRS with the VisorALARM receiver at the central station side.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact Teldat Security. Phone: (305) 372-3480 FAX: (305) 513-5209



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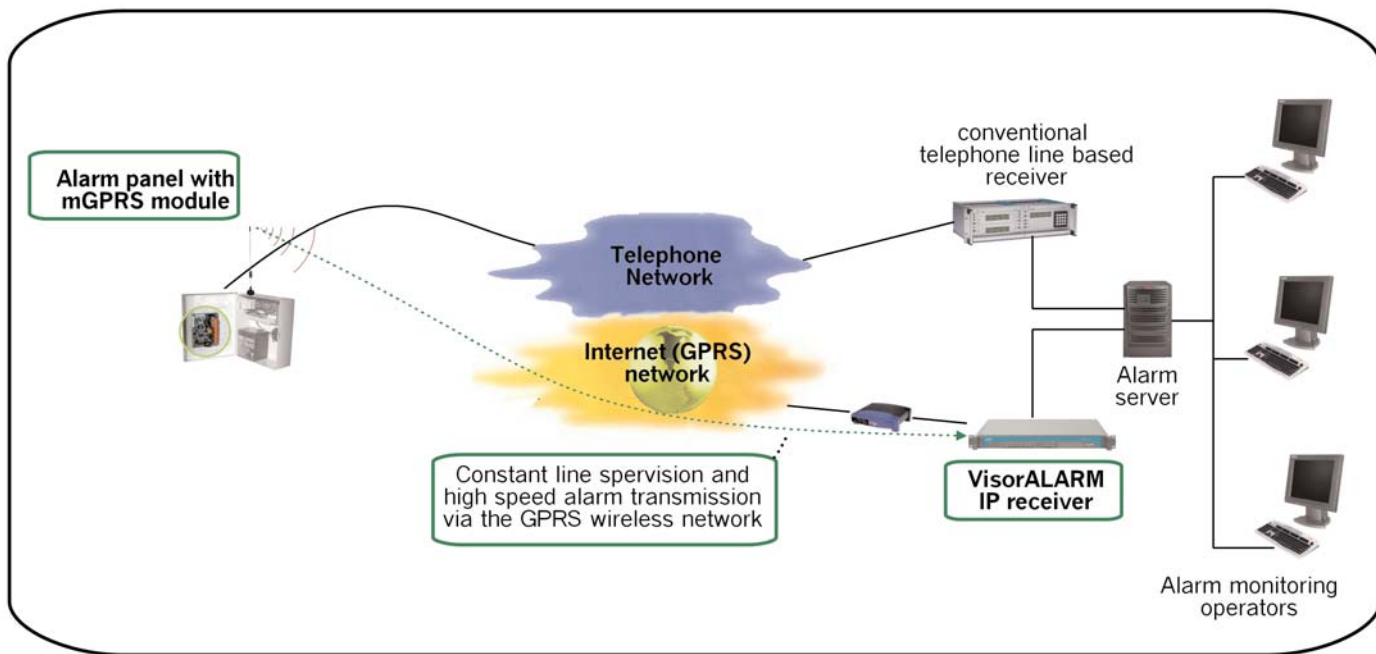
Manufactured in Spain

## mGPRS INSTALLATION CHECK LIST

- Burglar or Fire panel compatible with Contact-ID format.
- At least 260mA of electrical power available on the power supply to use for the mGPRS unit (500mA recommended)
- UDP port to use for mGPRS communication with the monitoring station (default port: 80)
- Destination IP addresses of the VisorALARM receiver where the mGPRS will be sending alarms and other events.
- Panel account ID number (CID).
- Installer password (provided by the monitoring station managing the VisorALARM IP receiver) for mGPRS module registration
- GSM SIM card with the GRPS service activated.

## SYSTEM ARCHITECTURE

- The telephone line, instead of going directly to the panel, is now connected to the mGPRS (and from the mGPRS it is then connected to the panel).
- The mGPRS monitors the status of the GPRS Internet connection with the receiver and decides which network to use to transmit the alarms received from the panel.
- At the central station side, a conventional receiver will still be used to receive alarms transmitted through the telephone line.
- If the Internet connection is available, the alarms will be sent to a VisorALARM receiver at the monitoring station.
- The mGPRS keeps constant communication with the panel to implement a real time line supervision functionality.



## mGPRS technical specifications summary

### POWER

- Nominal voltage: 16 - 20 Vac or 12 Vdc
- Max current:

	Idle	Alarm
16 Vac	30mA	260mA

### DIMENSIONS AND WEIGHT

- LxWxH: 6.1 x 3.35 x 0.6 inches
- Weight: 150 gr / 3 ounces

### ENVIRONMENTAL SPECIFICATIONS

- Environmental temperature: 32° to 120° F
- Relative humidity: Maximum 95%

### INPUTS AND OUTPUTS

- 4 Outputs: Open Collector.
- 3 Inputs: 1 A max.

### CERTIFICATES AND APPROVALS

- CE

### PROGRAMMING

- Password protected
- Telephone: Connection through LINE OUT using a telephone key pad.
- SMS: Full programming including alarm panel parameters.



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