



# GONEN AUTOMATION

## In brief:

- Fully programmable
- Obtains information from eight readers simultaneously
- Controls eight doors simultaneously
- Has eight relays and eight sensors
- Controls up to 100,000 persons
- Memory for 100,000 transactions
- Two serial communication ports
- LAN port
- Can automatically drive the relays on specific days and times
- Can automatically block or activate the sensors on specific days and times
- Unlimited number of timezones per person
- Unlimited number of calendars
- Eight timers, eight counters and eight group counters
- Visual and sound indicator for valid and non-valid booking
- Anti-Pass-Back function with adjustable time limit

## Mi-8000

### Access control terminal

The **Mi-8000** is the most advanced access control terminal in its kind. It can simultaneously accept transactions from eight readers. It has eight relays which enable it to control doors, gates, turnstiles, barriers and other devices. In addition, the **Mi-8000** has eight sensors which enable it to receive information from doors that stay open (for too long), light sensors, and other devices. The readers, relays and sensors work completely independent from each other as if each is driven by a separate terminal.

The **Mi-8000** terminal supports read techniques such as magnetic stripe card, proximity card (125 KHz), Mifare card (13.56 Mhz) and others.

The **Mi-8000** is equipped with a real-time clock to accurately keep the date and time. The terminal will function autonomously in case of communication failure. In that case the terminal will continue to receive information from the readers and sensors and will correctly drive the relays. The terminal will keep all transactions in its memory until communication resumes.

The **Mi-8000** can be used to automatically control external devices such as CCTV cameras, Sound and Visual devices, sending alarm signals and the like.

In addition to the above mentioned features, the **Mi-8000** has three advanced functions:

One is the Auto-Mode function which enables it to automatically drive one or more relays depending on the day type and the time of the day.

The second unique functionality enables it to set conditions about the situation in and around the building. For example, a door that remains open for too long, a timer that reaches the time limit, a counter which has reached a predefined number et cetera.

The third function is the possibility to automatically activate a command set with several commands in a row. For instance, in case of fire alarm several doors will open, others will be closed, reports will be printed, emails and text messages will be sent et cetera. A 'command set' can also be started manually as the result of an event (sensor signal) or on a predefined date and time.

# Specifications



## General

- 512 kB internal RAM memory
- 4MB Flash memory
- Eight sensors to receive external signals
- Eight potential free relays, each with N.O. (Normally Open) and N.C. (Normally Closed) contacts
- Eight reader inputs with Clock/Data or Wiegand (26 to 64 bits)
- Visual and sound indicators for valid and non-valid booking
- 60 MHz internal clock
- Automode functions to drive the relays or activate sensors automatically on a certain day and time
- Anti-Pass-Back function per reader or group of readers with adjustable time limit
- Automatic reset function in the terminal in case of an error
- Possibility to drive the relay from the application



## Communication

- Supports Clock/Data and Wiegand protocols for the reader
- Two serial ports with adjustable communication speed with the PC from 2400 to 115000 baud
- Serial communication with up to 255 terminals



## Characteristics

- Metal housing
- Weight: 1.1 Kg
- Working temperature: 0°C to 50°C
- Storage temperature: -20°C tot 75°C
- Measurements: 5 cm x 12 cm x 29,5 cm (HxWxL)
- Humidity: 0-95% non condensed



## Electrical features

- Supply voltage to all the readers 5V or 12V
- 110V/60Hz or 220V/50Hz
- Power consumption: 20 Watt



## Optional

- LAN-communication with an unlimited number of terminals 10/100 Mb speed



**Mi-8000**



Front of the **Mi-8000** with eight reader inputs, two serial communication ports and a LAN-connection



Backside of the **Mi-8000** with eight sensors, eight relays and power cable

The **Mi-8000** terminal is part of a line of six highly sophisticated access control terminals:

- **Mi-1000** with 2 readers, 2 relays and 2 sensors
- **Mi-2000** with 2 readers, 2 relays and 2 sensors, with additional functions
- **Mi-3000** with 4 readers, 4 relays and 4 sensors
- **Mi-4000** with 4 readers, 4 relays and 4 sensors, with additional functions
- **Mi-7000** with 8 readers, 8 relays and 8 sensors
- **Mi-8000** with 8 readers, 8 relays and 8 sensors, with additional functions