



# IP intercom for security

## IPefono HSQ

IPefono HandSet is IP intercom emergency equipment aimed at banks, which permits the maintenance of a high availability line between the Alarm Reception Centre and bank offices, using the connectivity of the IP network (corporate network) and hence avoiding the use of the standard telephone network.

The use of an exclusive device for this function permits the prioritisation of this type of calls and guarantees proper functioning in the case of issues with servers, computers, telephones and other office equipment.

By picking up the IPefono HandSet, a direct call to the Alarm Reception Centre is made. At this centre, there are one or various IP telephones and a VoIP switchboard that distributes the calls from the IPefono HandSets at the various bank offices between the present telephones.

The IPefono Handset has a highly sensitive internal microphone that permits a connection to be made from the Alarm Reception Centre and ambient sound to be listened to.

The conversations had and/or listened to can be recorded and accessed by means of a protected system.

The system automatically supervises the proper functioning of the various IPefonos at the bank offices.

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## Technical characteristics

- 5V to 24V power supply. Nominal consumption: 1W.
- **Industrial temperature range:** –40°C to 85°C.
- Dimensions 200mm x 100mm x 45mm (depth), including the handset.
- **Class D Amplifier** from 3.2 W and 96% efficiency.
- Alarm input for dry contact.
- Adjustment regardless of the levels of tone audio, bell and conversation.
- Digital adjustment of the sensitivity of the handset and ambient microphones.
- Multiple **echo cancellation** algorithms: adaptive duplex, AEC or PPT.
- Consumption of network bandwidth from 16 Kbps to 64 Kbps (the headers are not counted).
- Audio CODECs G711 (3.4 KHz), **G722** (7.1KHz) and **G726** (3.4KHz).
- Precision of the **12 bit sample**, which is equivalent to the larger dynamic margin of the signal.
- Noise suppressor in the microphone and digital filtering of the signal.
- IP Protocols: ARP, IP v4, ICMP, IGMP, TCP, UDP, DHCP, DNS, SIP, HTTP, Telnet, RTP, RTCP, SNTP, Discovery Protocol (by ConectaIP).

## Functional characteristics

- When the handset is picked up, a direct call is made to the Alarm Reception Centre configurable and one second backup in the case that the first call is not answered.
- Bi-directional communication.
- At the Alarm Reception Centre, the call is received on a **handsfree telephone** without requiring that the receiver pick it up.
- It is impossible to leave the telephone inoperative even if it is left off the hook.
- It is possible to talk from the Alarm Reception Centre with various devices simultaneously.
- Playback of pre-recorded messages from the Alarm Reception Centre.
- **Listening function** that permits a connection to be made from the Alarm Reception Centre and the ambient sound to be listened to discreetly by means of a highly sensitive internal microphone.
- It is possible to integrate into the Alarm Management application at the Alarm Reception Centre.
- Connection with **SIP standard systems** (switchboards, gateways, telephones, ...) or voice over IP services on the internet.
- It has a free tool that permits **massive verification, updates and configuration**.
- **Audio sensor** to activate an exit or make calls for sound events.



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