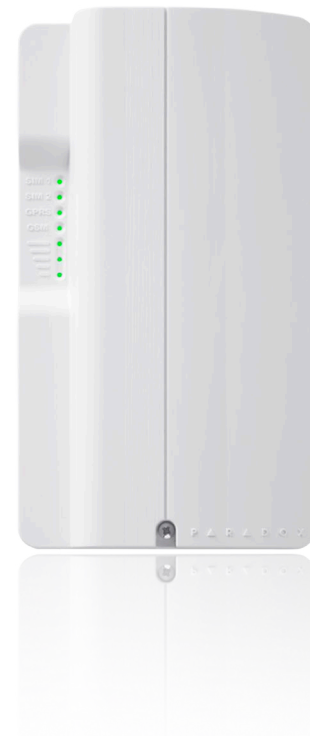# PCS250
GPRS/GSM Communicator Module

Description

The PCS250 GPRS/GSM Communicator Module is the next evolutionary step in wireless communication solutions for Paradox control panels. Providing reliable and fast communication between properties and their respective monitoring stations, the PCS250 is the vital link that keeps you connected.

Using cellular networks, the PCS250 reports to the monitoring station's automation software via two channels (GPRS/GSM), ensuring that all communication is fast, reliable, and stable. The PCS250 can be used as a backup to a traditional landline, or as a primary communicator where no landline is available. It also adds remote home control capabilities to a system, allowing you to arm/disarm with a simple text message (SMS). Feel safe by taking control of your system, wherever you are.

Re-imagined through an array of new technologies, contemporary design, and a modern hi-tech finish, the PCS250 GPRS/GSM Communicator Module enables Paradox systems to be remotely controlled, continuously monitored, and reliably connected at all times.

Features

- Compact, sleek design
- Instant notification of panel supervision loss
- Easily arm/disarm the system via SMS
- Report alarms by sending pre-recorded voice messages to up to 8 telephone numbers using the GSM mode (CID) of the optional Paradox Plug-in Voice Module (VDMP3)
- Report alarms by text messages to up to 16 cellular phone numbers
- Simple installation with 4-wire serial connection
- Optional rod antenna can be installed up to 18m/60ft from the PCS250 module using optional able extensions depending on the local signal strength
- Increase the distance between the panel and the PCS250 module with an RS485 link (GSM mode only via e-bus). To accomplish this, a CVT485 module must be added on the panel side.
- In GPRS mode messages are secured with 128-bit (MDS) and 256-bit (AES) encryption

Highlights

- **Reporting to Central Station via GRPS and/or GSM**

The PSC250 provides GPRS and/or GSM reporting in all the communication formats supported by your Paradox panel.

- **Upgrade Firmware via GPRS or On-Site**

When connected with GPRS, the PSC250 can be upgraded remotely or on-site using a PC with an Internet connection via InField.

- **Use SMS to Report Events and Remote System Control**

The PCS250 automatically sends SMS text messages to up to 16 mobile phone numbers displaying the nature of the event or trouble. Messages contain event description, site name, date, time and any associated labels, such as area, zone, and serial numbers. Event descriptions are pre-defined in the PCS250 module and are available in multiple languages, which are selected by installers.

- **Supervision of Control Panel Communication**

The PCS250 provides several supervision options to ensure that you or the monitoring stations is notified of problems such as loss of GSM service or loss of communication with the control panel in GSM mode.

- **Easily Configure the PCS250 and Panel**

Use Babyware, via the GPRS network, to quickly configure both the PCS250 and Paradox panel.

PCS250 Overview

17.2 cm
6.8 in

9.7 cm
3.8 in

4.4 cm
1.7 in

Additional Features

• Upload/Download via GPRS

The PCS250 supports upload/download with a WinLoad or InField connection through a GPRS network.

• Simple Installation

Install with a simple 4-wire serial connection up to 1.8m (6ft) from the panel. A CVT485 module can be added to increase the distance between the PCS250 and the control panel for a distance of up to 300m (1000ft).

Optional Accessories

• Plug-In Voice Module (VDMP3) – GSM only

Use the VDMP3 to arm and disarm your Paradox system. The VDMP3 can also send pre-recorded voice messages to up to 8 phone numbers to report alarms via the GSM cellular phone network. The VDMP3 is installed directly on the PCS250 module. It then uses the GSM cellular phone network to deliver voice messages and react to commands.

• Antenna Extensions

The PCS250 is equipped with an on-board antenna allowing it to be installed separately from the panel. To increase RF reception, an optional external antenna can be installed with an extension cable. Available antenna extensions include: EXT2: 2m/6ft; EXT4: 4m/12ft; EXT7: 7m/24ft; EXT15: 15m/48ft; EXT18: 18m/60ft.

• Optional Power Supply

The PCS250 is designed to be powered by the Paradox control panel. Depending on system architecture needs, the PCS250 can be powered by an external power source such as the PS817 (12 Vdc external power supply).

Specifications

Power	Class 4 (2W) @ 850/900 MHz; Class 2 (1W) @ 1800/1900 MHz
Antenna Bandwidth	70 / 80 / 140 / 170 MHz
Antenna	Gain < 3 dBi; impedence 50 Ω; input power >2W peak power
Power Input	12Vdc nominal
Consumption	100 mA standby, average 450 mA (1.2A peak) during GPRS/GSM transmission
Operating Temperature	0°C to 50°C (32°F to 122°F)
Encryption	128-bit (MDS and RC4) or 256-bit (AES)
SMS Protocol	8-bit (IRA:ITU0T.50) or 16-bit (UCS2 ISO/IEC10646)

Scan for more information
on the PCS250

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