

# PCS Series | The Vital Link

## Communicator Modules

### Description

The PCS250 and PCS250G Communicator Modules are 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 PCS Series 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), while the PCS250G leverages the GPRS data channel ensuring that all communication is fast, reliable, and stable. The PCS250 or the PCS250G can be used as a backup to a traditional landline, or as a primary communicator where no landline is available. Both units support remote control capabilities, allowing you to arm or disarm with a simple text message. Take control of your system wherever you are.

Combining an array of new technologies, contemporary design and a modern hi-tech finish, the PCS Series Communicator Modules enable 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 Short Message Service (SMS)
- Reports alarms by sending pre-recorded voice messages to up to eight telephone numbers using the GSM mode of the optional Paradox Plug-in Voice Module (VDMP3) - *PCS250 only*
- Report alarms via text message for up to 16 cellular phone numbers
- Simple installation with four-wire serial connection
- Optional rod antenna can be installed up to 18m (60ft) from the PCS250 or PCS250G module using optional cable 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 - *PCS250 only*
- In GPRS mode messages are secured with 128-bit (MD5 and RC4) or 256-bit (AES) encryption



### Highlights

- **Reporting to Central Station via GPRS and/or GSM**  
The PCS250 provides GPRS and/or GSM reporting while the PCS250G reports only via GPRS in all communication formats supported by your Paradox panel.
- **Upgrade Firmware via GPRS or On-Site**  
When connected with GPRS, the PCS250 and PCS250G can be upgraded remotely or on-site using a PC with an Internet connection via BabyWare.
- **Use SMS to Report Events and Remote System Control**  
The PCS250 and PCS250G automatically sends SMS text messages to up to 16 mobile phone numbers displaying the nature of the event or trouble. Messages contain event description, date, time and any associated labels, such as area, zone and serial numbers. Event descriptions are pre-defined in the PCS250 and PCS250G modules and are available in multiple languages which are selected by installers.
- **Supervision of Control Panel Communication**  
The PCS250 and PCS250G provide several supervision options to ensure that you or the monitoring station is notified of problems such as loss of GSM service or loss of communication with the control panel.
- **Easily Configure the PCS Series and Panel**  
Use BabyWare, via the GPRS network, to quickly configure either the PCS250 or PCS250G, and the Paradox panel.

# PCS Series Specifications



Back

## Additional Features

### • Upload/Download via GPRS

The PCS Series supports upload/download with a BabyWare connection through a GPRS network.

### • Simple Installation

Both the PCS250 and PCS250G install with a simple four-wire serial connection up to 2 m (6 ft) from the panel. On a PCS250 operating in GSM mode, a CVT485 can be added to increase the distance between the PCS250 and the control panel (e-bus) for a distance of up to 300 m (1000 ft).

## Optional Accessories

### • Plug-In Voice Module (VDMP3) – (PCS250 - GSM only)

The VDMP3 is used to arm and disarm your Paradox system. The VDMP3 can also send pre-recorded voice messages for up to eight phone numbers to report alarms via the GSM cellular phone network. The VDMP3 module is mounted directly onto the PCS250 module, and then uses the GSM cellular phone network to deliver voice messages and react to commands.

### • Antenna Extensions

The PCS Series 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. Extension cables available: 2 m (6 ft), 4 m (12 ft), 7 m (24 ft), 15 m (48 ft), or 18 m (60 ft).

### • Optional Power Supply

The PCS Series is designed to be powered by the Paradox control panel. Depending on system architecture needs, the PCS250 and PCS250G 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	Gain < 3 dBi; impedance 50 Ω; input power >2W peak power
Power Input	12 Vdc nominal
Consumption	100 mA standby, average 450 mA (1.2 A peak) during GPRS/GSM transmission
Operating Temperature	0°C to 50°C (32°F to 122°F)
Encryption	128-bit (MD5 and RC4) or 256-bit (AES)
SMS Protocol	8-bit (ISO/IEC 8859-1) or 16-bit (UCS2 ISO/IEC10646)
Humidity	5-90%
Certification	EN 50136 ATS 5 Class II

Scan for more information  
on the PCS250 and  
PCS250G

