PARADOX™

PCS260

3G / 2G / GSM Communicator Module

Installation and Programming Guide

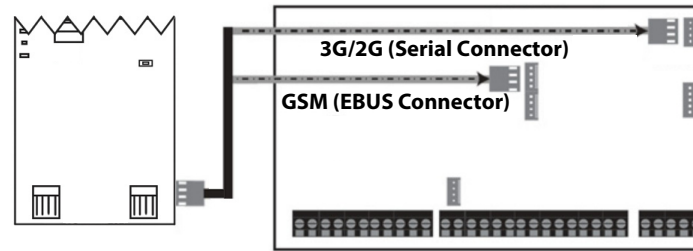****Compatible with Insite GOLD and SWAN Server****

Installation

1. Mounting hole
2. Antenna connector
3. Wall tamper hole
4. Serial connector
5. Upgrade connector
6. Cover tamper switch

SIM Card Connection

The PCS260 supports two standard 3G, 2G or GSM provider SIM cards. To install the SIM cards, open the SIM Card tray and insert card into slot, as shown. SIM Card 1 is used as "Primary" and SIM Card 2 for "Backup".

Panel Connections

Connect the PCS260's serial out to the serial connector on the panel.
- For 3G/2G reporting, connect to the Serial port of the panel.
- For GSM reporting, connect to the EBUS port of the panel.

3G/2G (Serial Connector)

GSM (EBUS Connector)

Antenna Extension Connection

Use an antenna extension kit to improve RF reception if your module's signal strength is weak. Antenna kits are purchased separately.

IP Module Connection

The PCS260 can be connected to an IP Internet Module's PCS port. For more information on how to configure this option, please refer to the IP module's Installation manual.

Powering-up the PCS260

Once your hardware connections are completed, the PCS260 module will begin its power up sequence.

- **Power** LED will turn solid green
- **Status** LED will be red and switch to green after approximately 10 seconds
- **SIM card 1** LED will slowly flash orange while searching for the GSM network; once found the LED will be solid orange

If configured for 3G/2G reporting, you will need to configure network provider information. Refer to Programming.

LED Functionality

LED	Functionality
SIM1 and SIM2	Slow orange flashing - Searching the network Solid blue - 3G Solid orange - GSM Solid green - 2G (n/a for North and South America) Quick flashing - Exchanging data (the color of the flashing LED corresponds to the color of 3G/2G or GSM depending on which is being used) Off - SIM card 1 is not installed, not active, or currently not in use
Power	Solid green Off - No power
Status	Red - Error condition, no firmware Red/Green alternating - updating firmware
Signal Strength	Three LEDs indicate network strength
All LEDs (except power)	Flashing - No data communication

Programming

In order to configure the PCS260 for reporting, you will need to first configure your SIM cards. Please note that SIM Card 1 can be configured via panel programming and SIM Card 2 via SMS.

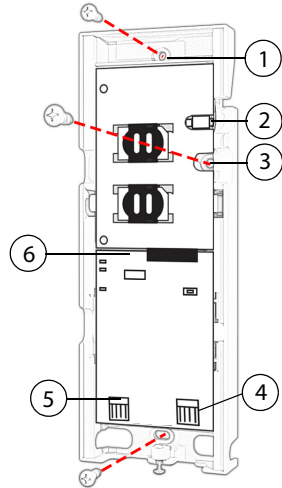### 3G/2G Reporting (Serial Port Connection)

Network Provider Information

MG/SP	EVO	Feature
[921]	[2960]	APN part 1 (characters 1-16)
[922]	[2961]	APN part 2 (characters 17-32)
[923]	[2962]	APN user name part 1 (1-16)
[924]	[2963]	APN user name part 2 (17-32)
[925]	[2964]	APN password part 1 (1-16)
[926]	[2965]	APN password part 2 (17-32)
Important: This information can be obtained from your mobile network provider.		

Network Provider Information via SMS

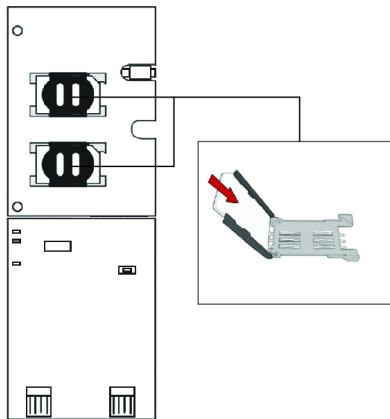| Command	Description
P[password].APN2.NAME. [Access Point Name]	Used to program the SIM Card 2 Access Point Name
P[password].APN2.USER. [Access Point Name]	Used to program the SIM Card 2 Access Point User
P[password].APN2.PSW. [Access Point Name]	Used to program the SIM Card 2 Access Point Password
P[password].APN2.CLEAR	Used to clear the SIM Card 2 Access Point Name
P[password].VAPN2. [CALL BACK PHONE NUMBER]	Used to view the SIM Card 2 Access Point Name information

3G/2G Reporting Options

MG/SP	EVO	Feature	Details
[918] [919]	[2976] to [2983]	Account / Partition Registration	MG/SP: Sections represent account/ partition 1 and 2 EVO: Sections represent account / partition 1 to 8
[806]	[2975]	[7] Off + [8] Off = landline only [7] Off + [8] On = 3G/2G primary / landline backup (default) [7] On + [8] Off = landline only [7] On + [8] On = landline and 3G/2G in parallel	

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Receiver Settings	MG/SP		
Receiver #: IP address* IP port ** IP address WAN 2 IP port WAN2 Receiver password Security Profile	1 [929] [930] [931] [932] [933] [934]	2 [936] [937] [938] [939] [940] [941]	Backup [943] [944] [945] [946] [947] [948]
Module registration - Press **[ARM]** to register	[935]	[942]	[949]

Receiver Settings	EVO			
Receiver #: IP address* IP port ** IP address WAN 2 IP port WAN2 Receiver password Security Profile	1 [2984]	2 [2986]	3 [2988]	4 [2990]

* For 1 or 2 digit numbers, add "0's" before the digit: e.g., 138.002.043.006
** Default = 10000
Enter [MEM] for blank space

GSM Reporting (EBUS Connection)
Reporting Options

MG/SP	EVO	Details
[805]	[2950]	[1] Off + [2] Off = landline only (default) [1] Off + [2] On = landline primary / GSM backup (default) [1] On + [2] Off = GSM primary / landline backup [1] On + [2] On = GSM only
[815] to [817]	[3071] to [3074]	Telephone numbers
[811] to [812]	[3061] to [3068]	Account numbers

SMS Messages for Backup

Command	Description
P[PASSWORD].SMS[GSM MODEM TELEPHONE #].[IPRS-7 PASSWORD]	Used to program the receiver's SMS parameters

Additional Programming Options

SMS Language

Language	Value	Language	Value
English (default)	000	Bulgarian	016
French	001	Romanian	017
Spanish	002	Slovak	018
Italian	003	Chinese	019

Language	Value	Language	Value
Swedish	004	Serbian	020
Polish	005	Malay	021
Portuguese	006	Slovenian	022
German	007	Lithuanian	023
Turkish	008	Finnish	024
Hungarian	009	Estonian	025
Czech	010	French Canadian	026
Dutch	011	Belgian	027
Croatian	012	Latvian	028
Greek	013	Albanian	029
Hebrew	014	Macedonian	030
Russian	015		

List of SMS Commands

Command	Description
P[password].A[IP address].P[port number]	Used for 3G/2G remote access
P[password].IP.[call back phone number]	Used to obtain the IP address and IP port of the PCS260 and whether or not the "bandwidth saver" option is being used
P[password].RESET	Used to reset the PCS260
P[password].BWS.ON	Used to enable bandwidth saver mode
P[password].BWS.OFF	Used to disable bandwidth saver mode
P[password].VOLOUT.[GSM output volume]	Used to set the GSM output volume; values range between 50 to 100
P[password].STATUS.[phone number]	Used to obtain the signal strength, signal quality, 3G/2G connection status, and APN settings of the current SIM card
P[password].APN1.NAME.[Access Point Name]	Used to program the SIM Card 1 APN
P[password].APN1.USER.[Access Point Name]	Used to program the SIM card 1 APN User Name
P[password].APN1.PSW.[Access Point Name]	Used to program the SIM card 1 APN Password
P[password].APN1.CLEAR]	Used to clear the SIM Card 1 APN
P[password].VAPN1.NAME.[Access Point Name]	Used to view the SIM card 1 APN
P[password].APN2.NAME.[Access Point Name]	Used to program the SIM card 2 APN
P[password].APN2.USER.[Access Point Name]	Used to program the SIM card 2 APN User Name
P[password].APN2.PSW.[Access Point Name]	Used to program the SIM card 2 APN Password
P[password].APN2.CLEAR	Used to clear the SIM card 2 APN
P[password].VAPN2.[CALL BACK PHONE NUMBER]	Used to view the SIM card 2 APN information
P[password].[IP1W1/ IP1W2/ IP2W1/ IP2W2/ IP3W1/ IP3W2/ IP4W1/ IP4W2].[domain name]	Set domain name for 3G/2G receiver
P[password].[IP1W1/ IP1W2/ IP2W1/ IP2W2/ IP3W1/ IP3W2/ IP4W1/ IP4W2].CLEAR	Clear domain name for 3G/2G receiver
P[password].DNS.[ip address]	Set domain name server (DNS) IP address
P[password].DNS.CLEAR	Clear domain name server (DNS) IP address
P[password].VIP.[phone number]	Get domain name server (DNS) info
C[user code].[ARM/OFF].A[area number], [area number], [area number]TO[area number]	Arm/Disarm
P{password].---S	Disable SWAN polling (V4.32.002 and higher)
P[password].+++S	Enable SWAN polling (V4.32.002 and higher)

Technical Specifications

Specifications	Description
RF Power	Class 4 (2W) @ 850/1900 MHz Class 2 (1W) @ 1800/1900 MHz UMTS 850/1900 @ 0.25W (America) UMTS 900/2100 @ 0.25W (Europe)
Antenna Bandwidth	5 bands, wide-band
Voltage Input	12 VDC nominal
Consumption during GPRS/GSM transmission	60mA standby 300 mA maximum
Encryption	128-bit
SMS Protocol	7-bit (GSM: 3GPP TS 23.038/ GSM03.38) or 16-bit (UCS2 ISO/IEC10646)
SIM Cards	3G GSM (2G - n/a for North and South America)
Humidity	0 - 90% non-condensing
Operating Temperature	-20 - 50 °C (-4 to 122 °F)
Dimensions	20.8 x 7.5 x 2 cm / 8.2 x 2.9 x 0.8 in.

Safety Note: *This device may operate continuously in temperature of 55℃ (131°F) for a maximum period of 7 days.*