

P R D O X™



PCS265



4G / 3G / 2G / GSM
Communicator Module

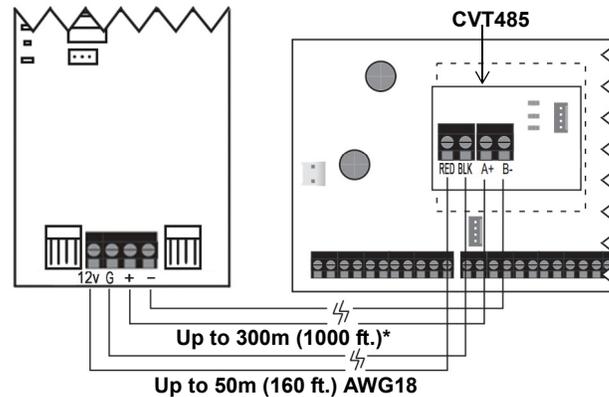
Installation and Programming Guide

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



RS485 Connection

A CVT485 module can be connected onto the control panel's EBUS in order to lengthen the distance (up to 300 m. / 1000 ft.) between the panel and the PCS265. Refer to the drawing for connections.



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 PCS265 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 PCS265

Once your hardware connections are completed, the PCS265 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 4G/3G/2G reporting, you will need to configure network provider information. Refer to the Programming section.

Note: Ensure that the PCS265's battery is always present and that the battery is replaced when low; do not allow the battery to deplete.

LED Functionality

LED	Functionality
SIM1 and SIM2	Slow orange flashing - Searching the network Solid blue - 4G/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 4G/3G/2G or GSM depending on which is being used) Off - SIM card 1 or 2 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 Green - No error and/or battery fully charged Amber - Battery charging
Signal Strength	Three LEDs indicate network strength
All LEDs (except power)	Flashing - No data communication

Programming

In order to configure the PCS265 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.

4G/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.

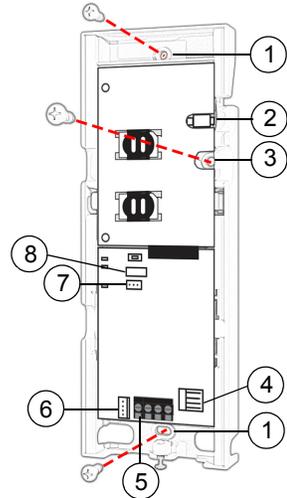
Network Provider Information via SMS

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

4G/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 = 4G/3G/2G primary / landline backup (default) [7] On + [8] Off = landline only [7] On + [8] On = landline and 4G/3G/2G in parallel	

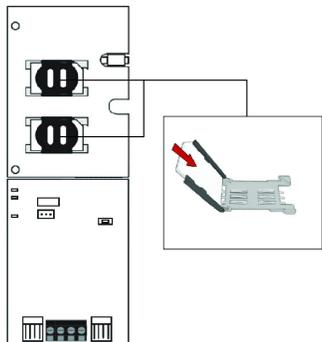
Installation



- 1 Mounting hole
- 2 Antenna connector
- 3 Wall tamper hole
- 4 Serial connector
- 5 RS485 / power terminal
- 6 Upgrade connector
- 7 Battery terminal
- 8 Cover tamper switch

SIM Card Connection

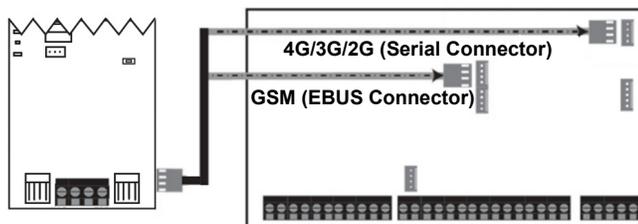
The PCS265 supports two standard 4G/3G/2G or GSM provider SIM cards. To install the SIM cards, open the SIM Card tray and insert card into slot, as shown. SIM Card 1 is used as "Primary" and SIM Card 2 for "Backup".



Panel Connections

Connect the PCS265's serial out to the serial connector on the panel.

- For 4G/3G/2G reporting, connect to the Serial port of the panel.
- For GSM reporting, connect to the EBUS port of the panel.



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

Receiver Settings	EVO			
Receiver #:	1	2	3	4
IP address*				
IP port **				
IP address	[2984]	[2986]	[2988]	[2990]
WAN 2				
IP port WAN2				
Receiver password				
Security Profile				
* 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 4G/3G/2G remote access
P[password].IP.[call back phone number]	Used to obtain the IP address and IP port of the PCS265 and whether or not the "bandwidth saver" option is being used
P[password].RESET	Used to reset the PCS265
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, 4G/3G/2G connection status, and APN settings of the current SIM card
P[password].APN1.NAME.[AccessPoint 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.[AccessPoint 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

Command	Description
P[password].[IP1W1/ IP1W2/ IP2W1/ IP2W2/ IP3W1/ IP3W2/ IP4W1/ IP4W2].[domain name]	Set domain name for 4G/3G/2G receiver
P[password].[IP1W1/ IP1W2/ IP2W1/ IP2W2/ IP3W1/ IP3W2/IP4W1/ IP4W2].CLEAR	Clear domain name for 4G/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, wideband
Voltage Input	12 VDC nominal
Consumption during GPRS/GSM transmission	60mA standby 300 mA maximum
Encryption	128-bit (AES)
SMS Protocol	7-bit (GSM: 3GPP TS 23.038/ GSM03.38) or 16-bit (UCS2 ISO/IEC10646)
SIM Cards	4G/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.
Certifications	EN 50131-1 Grade 3 Class II, EN 50136-1 ATS Category SP5

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

Warranty

The Limited Warranty Statement can be found on the website www.paradox.com/terms.

Patents

Your use of the Paradox product signifies your acceptance of these terms and conditions. The following US patents may apply 5,886,632 and 6,215,399. Other Canadian and international patents may apply.

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