



From Tyco Security Products

with
PowerG
Technology



PowerSeries Neo v 1.3 Control Panels **HS2016** **HS2128**

Compatible with:
 **ALARM.COM**

Features That Make a Difference:

- 16 to 128 zone panel configurations
- **PowerG** – robust, industry leading commercial grade wireless
- Simple partition management using Global keypads
- Compatible with Alarm.com home automation solutions with built-in Z-Wave capabilities through dual-path LTE/Internet
- Intuitive, quick installation
- User-friendly interfaces
- Visual alarm verification
- 2-way audio alarm verification via phone or cellular
- Alternate Communications via Cellular and IP
- Local and Remote Downloading
- Cost efficiencies through advanced system software
- 128 bit AES encryption (wireless, communicator & BUS)
- Remote firmware upgrade (panel/keypads/transceiver)

PowerSeries Neo is Security Redefined

PowerSeries Neo by DSC redefines intrusion security by combining the flexibility of a modular, hardwired system with the simplicity of a wide range of wireless devices and peripherals, resulting in the most comprehensive hybrid system available in the market today.

This brand new and exceptionally flexible platform leverages the superior capabilities of **PowerG** – the industry's leading-edge wireless intrusion technology. Innovative alarm verification solutions, together with an exceptionally comprehensive remote service software suite, make PowerSeries Neo the ideal first-class solution for residential and scalable commercial installations.

Bringing Home Closer

PowerSeries Neo is compatible with Alarm.com to deliver best in class smart home control and monitoring solutions. Anticipating future needs for a connected home, with infinite opportunities to maximise the system, PowerSeries Neo becomes an undisputed first-class investment.

PowerSeries Neo Revolutionary Control Panels with Flexible Scalability & Expansion

PowerSeries Neo control panels are the heartbeat to this revolutionary

hybrid system. DSC offers four control panels in the PowerSeries Neo portfolio, ranging in capacity from 16 to 128 zones and two to eight partitions, providing solutions for the spectrum of installations. Each control panel starts with six or eight hardwired inputs, two- four hardwired outputs and PSTN communication onboard. The system can be tailored for specific installations with added expansion capabilities, features and services. The modular and scalable structure of PowerSeries Neo provides a cost effective, tailored solution for even the most demanding installations. It includes a complete line of expansion modules to fit the requirements of today's installations while protecting the investment and ensuring growth in the future.

New Management System Software Custom Designed to Make Installation & Maintenance a Breeze

PowerSeries Neo introduces the most comprehensive suite of support software in the industry, designed specifically to help security professionals significantly cut time and cost invested in the installation and maintenance of the system.

The suite includes DLS5 Downloading Software, Routine System Management for remote diagnostics, inspections and maintenance, and WebSA System



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Administrator Software for professional end-user system management.

Innovative Alarm Verification Solutions Reduce False Alarms & Unnecessary Site Checks

PowerSeries Neo utilizes innovative, regionally compliant alarm verification solutions such as visual verification, two-way audio verification and sequential detection, greatly reducing incremental costs that can be incurred by false alarms, while adding to the security professional's RMR. Leveraging powerful support software, an accurate remote assessment is made of the situation inside the premises when an alarm is triggered by a burglary attempt, fire or other emergency. This eliminates the need for unnecessary site checks – ultimately saving time and cost while enabling responders to be alerted about any potentially dangerous situations.

Flexible Communications Offer Ultimate Peace of Mind

As traditional phone lines become less common and more users choose VoIP or mobile phones, PowerSeries Neo offers optional Cellular and/or IP communication methods. When connected to any PowerSeries Neo control panel, alarm reporting paths can be combined through the Public Switched Telephone Network (PSTN) if so desired, plus Cellular and/ or IP channels. The PowerSeries Neo communicators can conveniently utilize the Cellular and/or IP network as a primary or back-up communication path to ensure high speed, reliable and secure alarm communications. The integrated communicators also allow security professionals to offer RMR services such as alarm verification, even in instances where a traditional phone line is not present.

The Power of PowerG:

The power behind PowerSeries Neo lies in various innovative technologies, including the revolutionary **PowerG**, which, bundled together, provide a robust and feature-rich platform designed to reduce operational costs for dealers and provide ultimate reliability for end users.

- Multichannel, **Frequency Hopping Spread Spectrum** technology enables the system to hop between wireless frequency channels to ensure the seamless transmission of secure communications between the devices and the control panel.
- **Adaptive Transmission Power** translates into up to eight years of battery life for the system's devices and peripherals, reducing battery- replacement incurred costs.
- **High transmission ranges** allow for devices to reliably communicate within up to 2km/1.24 miles line-of-sight, therefore reducing the cost of installing additional repeaters to service larger premises.
- **TDMA synchronized communication technology** prevents messages from colliding by splitting channels into various time slots, allowing for an increased amount of data transmission and ensuring that devices are able to consistently communicate when needed.
- **128 bit AES encryption** offers exceptionally high level of protection against analysis tools and digital attacks.

Compatibility

PowerSeries Neo Hardwired Keypads

Full Message LCD Hardwired Keypad	HS2LCDS-N
Full Message LCD Hardwired Keypad with Prox Support	HS2LCDPS-N
ICON Hardwired Keypad	HS2ICNS
ICON Hardwired Keypad with Prox Support	HS2ICNPS
Hardwired 7 inch Touch Screen Keypad with Prox Support	HS2TCHP-N
Hardwired 7 inch Touch Screen Keypad with Prox Support Black	HS2TCHPBLK-N

PowerSeries Neo Hardwired Keypads with Built-In PowerG 433MHz Wireless Transceiver

Full Message LCD Hardwired Keypad with Built-in Transceiver - 433MHz	HS2LCDRF4-N
Full Message LCD Hardwired Keypad with Built-in Transceiver and Prox Support - 433MHz	HS2LCDRFP4-N
ICON Hardwired Keypad with built-in Transceiver - 433MHz	HS2ICNRF4
ICON Hardwired Keypad with Prox Support and built-in Transceiver - 433MHz.....	HS2ICNRF4P

PowerSeries Neo PowerG Wireless Keypads

Wireless Full Message LCD keypad - 433MHz	HS2LCDWF4
Wireless Full Message LCD keypad with Prox Support - 433MHz	HS2LCDWFP4
Wireless Full Message LCD keypad with Prox Support and Voice Prompting - 433MHz	HS2LCDWFPV4
Wirefree Deskmount stand with AU transformer	HS2LCDWFDKKAU

PowerSeries Neo PowerG Standalone Transceivers

Note: keypad with built-in transceiver modules are listed **PowerG** – Transceiver Modules

PowerG – Host Standalone Transceiver Module - 433MHz	HSM2HOST4
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PowerG Wireless Devices

Smoke and Heat Detector	PG4916
PIR Motion Detector	PG4914 ¹
PIR Motion Detector with Integrated Camera	PG4934P ¹
PIR Curtain Motion Detector	PG4924
Dual-Tech (PIR & MW) Motion Detector	PG4984P ¹
Mirror PIR Motion Detector.....	PG4974P ¹
Outdoor PIR Motion Detector	PG4994
Outdoor PIR Motion Detector with Integrated Camera	PG4944
Outdoor Curtain PIR	PG4902
360 Degree Ceiling Mount PIR - Residential	PG4862
360 Degree Ceiling Mount PIR - Commercial	PG4872
Glass Break Detector	PG4922
Shock Sensor	PG4935
Flood Detector	PG4985
Temperature Detector	PG4905
Optional External Waterproof Temperature Probe for Outdoor Refrigeration Measurement	PGTEMP-PROBE
4-Button Wireless Key ²	PG4929; PG4939
Indoor Siren	PG4901BATT
Outdoor Siren	PG4911B BATT
Repeater	PG4920AU
Door/Window Contact with Auxilliary Input	PG4945
Door/Window Contact	PG4303
Outdoor Magnetic Contact with Auxilliary Input	PG4312
Single Button Panic Key ²	PG4938
2-Button Wireless Key ²	PG4949

¹Includes Pet Immunity

²maximum 32 devices maximum any combination

PowerSeries Neo Power Supplies and High & Low Current Output Expansion

Power Supply Module	HSM2300
High Current Output Module.....	HSM2204
Output Module	HSM2208

PowerSeries Neo Hardwired Expansion

8 Zone Expander Module.....	HSM2108
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Alternate Communicator Options

HSPA Cellular Alarm Communicator	3G2080-AU
LTE/Internet Dual-Path Alarm Communicator with image sensor, compatible with Alarm.com services (ANZ)	TL880LEAT-ANZ
HSPA/Internet Dual-Path Alarm Communicator with image sensor, compatible with Alarm.com services (AU only)	TL2803G-AU
Internet Alarm Communicator	TL280E
Internet Alarm Communicator with RS-232 Integration	TL280RE
Universal LTE/IP Communicator, SMS/Voice Dialler, 6-Programmable Open Collector Output/Input ContactID	TL405LE-ANZ



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Communicator Remote Mounting Module PCL-422

Note: Please refer to www.dsc.com for a complete list of alarm.com compatible products

Control Panel Specifications

Power Supply..... 16.5 VAC/40 VA @ 50/60 Hz
Current Draw (Panel) 85mA (Nominal)
Auxiliary Output..... 13.75 +/- 5% Vdc/700mA
Bell Output..... 13.75 +/- 5% Vdc/700mA
Operating Environment32° to 120° F (0° to 49° C)
Relative Humidity..... 93%

Control Panel Approval Listings

FCC/IC, UL/ULC, SIA CP-01, CSFM, CNC, Anatel

Note: Please refer to www.dsc.com for the most current approval listings.

PowerSeries Neo Feature Comparison Chart

Features	HS2016	HS2032	HS2064 E	HS2128 E
Number of On-Board Zones	6	8	8	8
Total Zones Supported	16	32	64	128
Keypad Zone Expansion	Yes	Yes	Yes	Yes
Hardwired Zone	Yes	Yes	Yes	Yes
Wireless Zone Expansion	Yes	Yes	Yes	Yes
Number of Hardwired Keypads	8	8	8	16
Number of Wireless Keypads	8	8	8	16
Number of Wireless Receivers	1	1	1	1
Number of Wireless Repeaters	4	8	8	8
On-Board PGM Outputs	2	2	4	4
Number of Main Panel Low-Current PGM Outputs	1	1	1	1
Number of Main Panel High-Current PGM Outputs	1	1	3	3
PGM Expansion	Yes	Yes	Yes	Yes
Number of Additional High-Current PGM Outputs	4	4	12	16
Number of Additional Low-Current PGM Outputs	16	32	64	128
Number of Access Codes	47 + master	71 + master	499 + master	999 + master
Number of Partitions	2	4	8	8
Panel Event Buffer	500	500	500	1000
Phone Line Supervision	Yes	Yes	Yes	Yes
Siren Supervision	Yes	Yes	Yes	Yes
Bell Output	Yes	Yes	Yes	Yes
SIA CP-01 Compliant	Yes	Yes	Yes	Yes
SMS Command and Control	Yes	Yes	Yes	Yes
Upload/Download Support	Yes	Yes	Yes	Yes
Direct-Connect (PC Link) Downloading Support	Yes	Yes	Yes	Yes
DLS SA End-User Downloading Support	Yes	Yes	Yes	Yes
Internet Alarm Communications	Yes	Yes	Yes	Yes
Audio Alarm Verification	with HSM2955(R)	with HSM2955(R)	with HSM2955(R)	with HSM2955(R)
Cellular Alarm Communications	Yes	Yes	Yes	Yes
Battery Required	Yes	Yes	Yes	Yes



Specifications DSCPC5003C

The DSCPC5003C is the DSC Large Metal Cabinet/Enclosure.

Dimension: 248 x 298 x 78mm

Suitable for:

- Alarm Panel:
 - PowerSeries: DSCPC1616PCBAUS, DSCPC1864PCBAUS
 - PowerSeries NEO: DSCHS2016PCBAU, DSCHS2064PCBAU, DSCHS2128PCBAU
- Input Expander:
 - PowerSeries: DSCPC5108
 - PowerSeries NEO: DSCHSM2108
- Output Expander:
 - PowerSeries: DSCPC5208
 - PowerSeries NEO: DSCHSM2208
- Power Supply Module:
 - PowerSeries: DSCPC5200, DSCPC5204
 - PowerSeries NEO: DSCHSM2204, DSCHSM2300



DSC PowerG 2-Way Wireless Transceiver **HSMHOST4**



Features That Make a Difference:

- Supports 2-way PowerG devices.
- Multichannel, Frequency Hopping
- Spread Spectrum technology – to overcome frequency blocking and interference.
- Adaptive Transmission Power – for battery life preservation.
- High transmission ranges – for reliable communication within up to 2km/2187 yards line-of-sight.
- TDMA synchronized communication technology – to prevent message collisions.
- 128 bit AES encryption – high level protection against analysis tools and digital attacks.
- Case/Wall tamper.
- Status LEDs.
- Compatible with all PowerSeries Neo control panels.
- Available in 433MHz, 868 MHz, and 915 MHz (Please refer to www.dsc.com for the regional availability),
- RF Jamming supervision.

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- TDMA synchronized communication technology prevents messages from colliding by splitting channels into various time slots, allowing for an increased amount of data transmission and ensuring that devices are able to consistently communicate when needed.
- 128 bit AES encryption offers an exceptionally high level of protection against analysis tools and digital attacks.

HSMHOSTx PowerG Transceiver Module

- The HSMHOST4 is a wireless zone expander for additional PowerG sensors.
- One unit can be enrolled per system with up to 8 wireless repeaters (PG4920AU).
- Front and rear tampers available.
- Fully encrypted communications on Corbus.
- Can be wired up to 1000' (305M) from main panel



From Tyco Security Products

Specifications:

Ordering Information:

HSMHOST4 Wireless PowerG Transceiver 433 MHZ

HSMHOST8 Wireless PowerG Transceiver 868 MHZ

HSMHOST9 Wireless PowerG Transceiver 915 MHZ

Dimensions:..... 161 x 161 x 50 mm
(6 11/32" x6 11/32" x 1 31/32")

Board Current Draw: 60 mA (Max)

Voltage:..... 12 VDC Nominal

Operating Environment: -10°C to 55°C (14°F to 131°F)

Relative Humidity: 5 to 93%

Approvals

Please refer to www.dsc.com for the most current approval listings.

Compatibility

The HSMHOST4 is compatible with all PowerSeries Neo control panels

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From Tyco Security Products

TouchScreen Security Interface HS2TCHP-N HS2TCHPBLK-N



Features That Make a Difference:

- Intuitive menu-driven interface for the user
- Responsive, high-resolution 7" (177.8 mm) full color touchscreen
- Configurable home screen
- Built-in and easy-to-update digital picture frame using integrated SD card slot
- Clean, low-profile case in either white or black blends into any décor
- Quick-view LED status indicators (Ready, Armed, Trouble and AC Power)
- Authorized users can easily customize home screen to display commonly-used icons
- Global mode – Simplified partition management
- Simplified user code programming – able to scroll or type the user number up to 1000 users
- PGM outputs – able to program custom labels and see them on screen
- Screen saver mode – able to select from clock, photo, blank or OFF mode
- Displays time and date
- Interactive Menu ready, I/O terminal
- Local firmware update using SD card
- Prox support (using MPT prox tags)
- Available languages: English, French, Spanish, Portuguese



Power unleashed through an easy-to-use TouchScreen

The PowerSeries Neo HS2TCHP-N TouchScreen presents yet another option as part of a broad range of PowerSeries Neo keypads for a primary interface to this revolutionary hybrid system. In keeping with PowerSeries Neo's wide spectrum installation solutions, the HS2TCHP-N TouchScreen is designed with user-friendliness in mind. HS2TCHP-N TouchScreen stands out for its ease of installation, simplistic programming and user-friendly interfaces packaged in a clean, low-profile case in either white or black to easily blend into any décor.

Powering change - one touch at a time.

Easy to Install | Simplified programming of labels using QWERTY keypad

The PowerSeries Neo Touchscreen keypad has been designed with the user and installer in mind. For the user, menu driven, intuitive screens make programming very easy to configure desired options. Programming of labels is made simple through the 'QWERTY' keypad. The installer will also have the ability to do installer programming from virtual keypad, as well directly through the PowerSeries Neo Touchscreen keypad.

Building from the default or optional displays (Fig. 1 & 2), the installer can

quickly configure five of the graphical icons from over 10 options, depending on the user's needs. With up to 8 partitions available, the PowerSeries Neo Touchscreen keypad offers the benefits of a multi-partition control panel without changing the control panel and lets each partition zone act independently from the rest of the system.

The TouchScreen display can be easily customized for the user. For example if the user doesn't want to see partitions but wants to turn the chimes on and off, simply hide /display the appropriate icons. The clutter-free home screen can be easily modified later by the installer through password-protected setting menus. The background of the home screen can be easily customized by the installer to display company logos, contact information, pictures, etc.



Fig. 1.



Fig. 2.

Easy for Users

The PowerSeries Neo Touchscreen keypad has been designed with the user at 'top of mind'. Large, clearly recognizable on-screen buttons and intuitive menu-driven screens facilitate ease of medical use and programming. For example, to access the Fire, Medical, Panic keys, users just press the EMERGENCY button on the sidebar (Fig. 3). LED status lights on the bottom of the frame provide a quick visual check on the security system (Fig. 4).

The integrated digital picture frame (Fig. 5) gives homeowners the flexibility to display photos as a single photo or a timed slideshow or default background screen. Just insert an updated standard SD card into the SD slot and follow the on-screen prompts, similar to other 'off-the-shelf' digital picture frames.

In addition, the sleek profile and contemporary design adds a modern touch and comes in either white or black to seamlessly blend into any décor.



Fig 3.



Fig 4.



Fig 5.

Specifications

TouchScreen display.....	8.5" x 5.1" x 0.8" 127.9 mm (L) x 195 mm (W) x 20.35 mm (D)
Viewing angle.....	Horizontal viewing angle: 70° (typ.) Vertical viewing angle: 50° (top), 70° (bottom) (typ.)
Optimal viewing quality (resolution)	800 x 480
Input voltage	12 VDC
Brightness.....	280 cd/m2
Current draw	100 mA standby (screen off)/ 200 mA activated or alarm (reg. power mode)/300 mA activated or alarm (extra power mode)

- Voltage rating: 7Vdc to 14Vdc nominal
- Plastic enclosure protection degree: IP30, IK04 (TouchScreen excluded)
- Up to 16 keypads per system
- Connects to control panel via 4-wire Keypad
- Ready (Green LED), Armed (Red LED), Trouble (Yellow LED), AC (Green LED)
- Wall mount tamper
- 5 programmable function keys

Distance between keypad and control panel 305 m (1000 ft) (max.); corbus distance in extra power mode: 33.5 m (110 ft)

Operating environment..... 0 to 49 °C (32 to 120 °F)
93% relative humidity non-condensing

SD card slot Holds any standard Secure Digital (SD) card* (32 x 24 x 2.1 mm) containing photos

*If necessary, the SD card can be formatted to file system FAT16 or 32 using a PC. The maximum size SD card supported is 32GB.

Wiring.....Standard four-wire connection

Display language.....versions include: English, French, Spanish, Portuguese

CompatibilityPowerSeries Neo v1.11 +

Approvals:

FCC/IC, UL/ULC, CE, C-tick

Please refer to www.dsc.com for the most current approval listings.

Compatibility:

PowerSeries Neo Systems

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Specifications DSCT-1

The DSCT-1 is the DSC tamper switch for DSC Metal Cabinet/Enclosure DSCPC5002C, DSCPC5003C, DSCPC4001CW.





Specifications DSCTB-1

The DSCTB-1 is the DSC tamper bracket for DSC Metal Cabinet/Enclosure DSCPC5002C, DSCPC5003C.

DSCTB-1 tamper bracket suitable to use with DSC Tamper Switch DSCT-1.





TM1 Telecom Interface Module Installation Instructions

Product Description

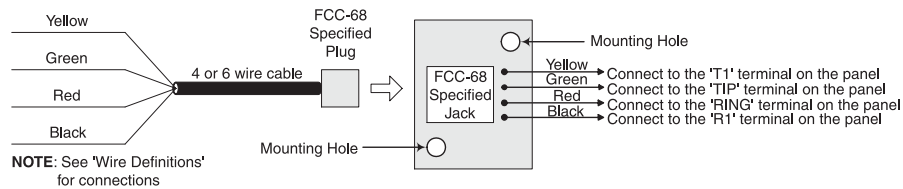
This module is used to interface the telecom network to the panel telecom circuit via an FCC-68-specified plug.

Installation

Secure the module to the inner side or bottom of the enclosure with the double-sided adhesive tape provided. Alternately, holes can be drilled in the enclosure and 1/4" plastic standoffs can be used to secure the module.

For wiring connections, see the wiring diagram below.

Wiring Diagram (Component Side)



Wiring Definitions

Green = Incoming 'TIP'
Red = Incoming 'RING'
From the telecom network

Yellow = Outgoing 'TIP'
Black = Outgoing 'RING'
To the remaining telecom equipment at the site

WARNING: Please refer to the System *Installation Manual* for information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer.

ENGLISH: Tech Line: US & Canada: 1-800-387-3630
FRENCH: Centre d'aide technique: US & Canada: 1-877-285-6655
SPANISH: Líneas Tech: US & Canada: 1-800-387-3630
Mexico: 1-800-514-1248 Puerto Rico: 1-877-651-1249



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TM1 Telecom Interface Module Installation Instructions

Product Description

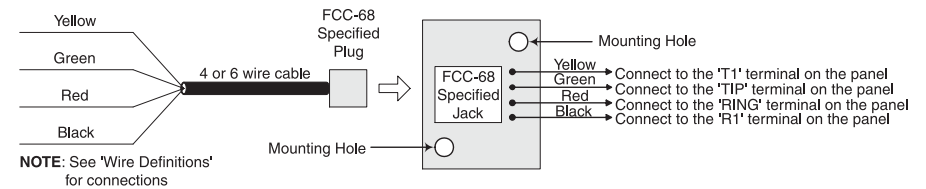
This module is used to interface the telecom network to the panel telecom circuit via an FCC-68-specified plug.

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