



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

<b>PowerG</b> – Host Standalone Transceiver Module - 433MHz .....	HSM2HOST4
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## PowerG Wireless Devices

Smoke and Heat Detector .....	PG4916
PIR Motion Detector .....	PG4914 <sup>1</sup>
PIR Motion Detector with Integrated Camera .....	PG4934P <sup>1</sup>
PIR Curtain Motion Detector .....	PG4924
Dual-Tech (PIR & MW) Motion Detector .....	PG4984P <sup>1</sup>
Mirror PIR Motion Detector.....	PG4974P <sup>1</sup>
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 <sup>2</sup> .....	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 <sup>2</sup> .....	PG4938
2-Button Wireless Key <sup>2</sup> .....	PG4949

<sup>1</sup>Includes Pet Immunity

<sup>2</sup>maximum 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 Environment .....32° 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



## PowerSeries Neo Hardwired Keypads (optional: with Built-In PowerG Transceiver) HS2 Series



### Features That Make a Difference:

- Available in three display options: Full message 2x16 character LCD, ICON
- Blue display on LCD & ICON versions
- Large, white backlit keypad buttons
- I/O for either zone or programmable output
- 5 programmable function keys
- 3 Separate panic keys
- Adjustable backlight and keypad buzzer
- Multiple door chimes per zone
- 8 Partition support
- Front and rear mount tamper
- Prox. Tag (Optional)
- With built in PowerG Transceiver (optional)
- Wire channel
- Easy-to-install mounting hinge
- Surface or single-gang box mount
- Remote firmware upgradable
- Compatible with PowerSeries Neo systems

### 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 - 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

### 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.

### PowerSeries Neo Hardwired Keypads

PowerSeries Neo keypads are a primary interface to this revolutionary hybrid system.

These slim-profile keypads come with an optional integrated PowerG transceiver to maximize wireless configuration flexibility.

PowerSeries Neo hardwired keypads achieve a clean, unobtrusive look that users welcome in any work or living space. Installers appreciate them for their ease of programming and simplified installation.

### Flexibility

In keeping with PowerSeries Neo's wide spectrum of installation solutions, the PowerSeries Neo hardwired keypads are available with three display options: full message 2x16 character LCD, ICON. Customisable keypad features include an input/output terminal that can be programmed to operate as a zone input, a programmable output or as a low temperature sensor. Other features include adjustable backlit keys for low-light situations and five programmable keys for simple one button activation of system functions. The door chime

function allows for multiple pre-programmed chimes to identify specific zones.

The keypads' integrated temperature sensor can be programmed to activate when room temperature dips below 43° F (6° C) and restores at 47° F (8° C). Built-in logic prevents the panel from cycling in and out of alarm mode during minor temperature fluctuations, helping to reduce false alarms.

## Easy To Use

PowerSeries Neo hardwired keypads feature five programmable keys for easy one-button activation of system functions. The quick exit function avoids having to disarm and rearm the system every time an occupant leaves the premises.

Prox versions of these keypads allow the user to arm or disarm the system in one easy swipe of the prox tag without needing to remember a security code.

128-zone full-message keypads support six languages, global partition status and full, 32-character programmable phrases.

## Wireless Convenience

Offering identical features as their hardwired equivalents, RF versions of the keypads support up to 128 wireless zones and 32 wireless keys (on HS2128 version) without taking up a wireless zone slot.

## Specifications:

Dimensions:..... (L x W x D): 168mm x 122mm x 20 mm  
(6 1/16" x 4 7/16" x 13/16")

LCD Viewable Area: .99 mm x 24 mm (3 9/10" x 15/16")

Current Draw: ..... 125 mA (Max)

HS2LCDS-N/HS2LCDPS-N/HS2ICNS/HS2ICNPS/  
HS2LCDRF4-N/HS2LCDRFP4-N/HS2ICNRF4/  
HS2ICNRFP4 ..... 60 mA

Voltage: ..... 12 VDC Nominal

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

Relative Humidity: ..... 5 to 93%

## Ordering Information:

HS2LCDS-N ..... 128-Zone Full-Message LCD Keypad

HS2LCDPS-N ..... 128-Zone Full-Message LCD Keypad  
w/ Prox

HS2LCDRF4-N ..... 128-Zone Full-Message LCD Keypad  
w/ Transceiver

HS2LCDRFP4-N ..... 128-Zone Full-Message LCD  
Keypad w/ Transceiver and Prox

HS2ICNS ..... 128-Zone ICON Keypad

HS2ICNPS ..... 128-Zone ICON Keypad w/Prox

HS2ICNRF4 ..... 128-Zone ICON Keypad w/Transceiver

HS2ICNRFP4 ..... 128-Zone ICON Keypad  
w/ Transceiver and Prox

## Approvals:

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

## Compatibility:

The keypads are compatible with all PowerSeries Neo control panels.



## **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

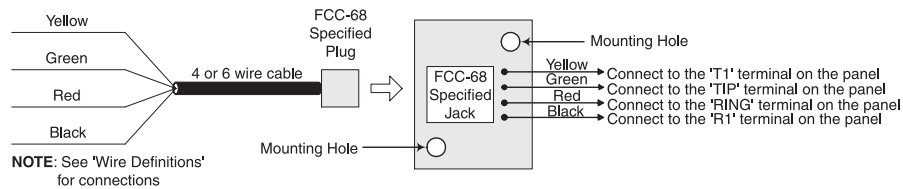
This module is used to interface the telecom network to the panel telecom circuit via an FCC-68-specified plug.

#### 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  
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## TM1 Telecom Interface Module

### Installation Instructions

#### Product Description

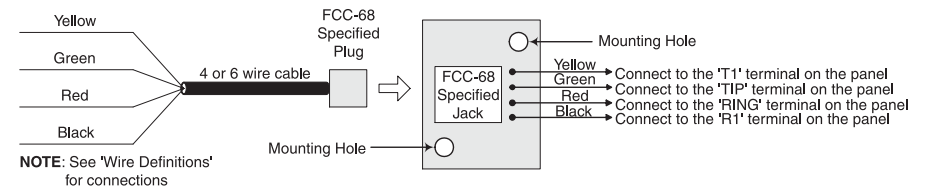
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