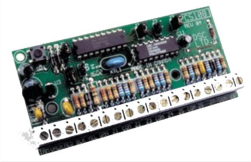

DSC PC5108 Power Series Security System Installation Guide

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DSC

DSC PC5108 Power Series Security

This Installation sheet shall be used in conjunction with the Installation Manual of the DSC equipment to which PC5108 is connected or powered from (e.g. alarm controller, power supply, etc.). The PC5108 module can be used to extend up to 8 hardwired input zones on the compatible DSC Alarm Controllers, models PC50l 0, PC50l 5, PC5020, PCl 864, PCl 832 and PCl 616.

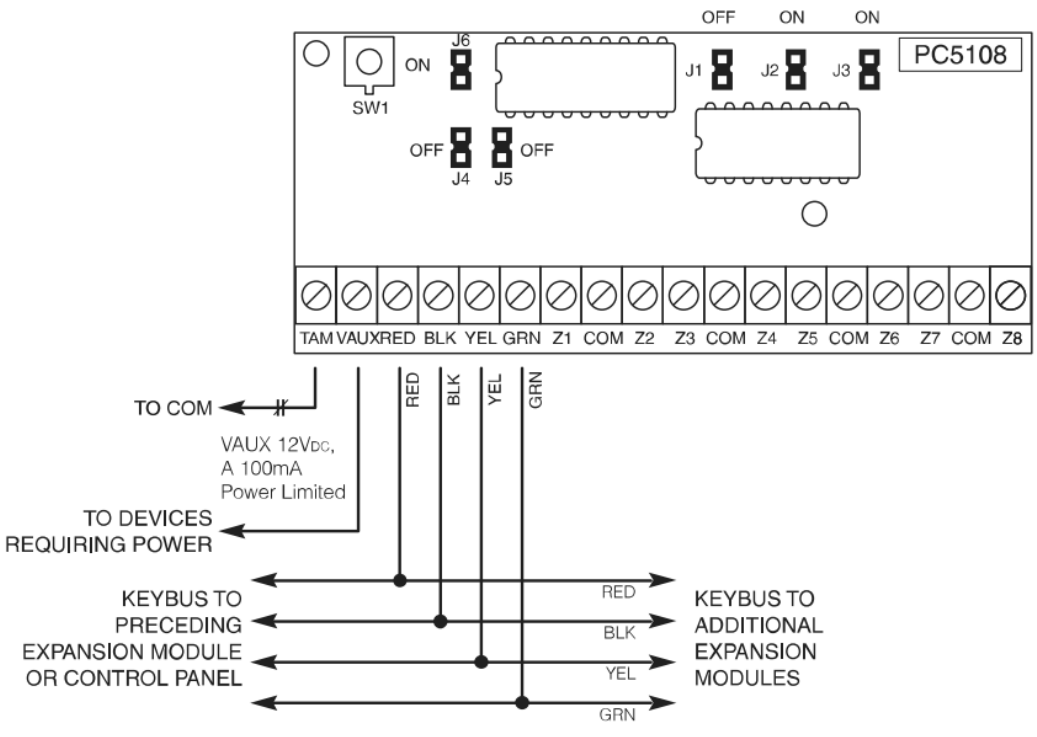
General

This product meets the requirements of Class 11, Grade 2 equipment as per EN50131-l: l 997 and prEN50131-l:2004 Standards.
PC5108 may be installed in the same metallic cabinet as the alarm controller/power supply (model Power UCl, PC5003() or in a separate enclosure {PC4003(). Internal and/or external wiring for the PC5108 shall be routed, supported, clamped or secured in a manner that reduces the likelihood of (a) excessive strain on wire and terminal connections, {b) loosening of terminal connections, and (c) damage of conductor insulation.

Specifications

- **Temperature range:** -10°(to + 55°(
- **Relative Humidity:** 93% non condensing
- **Input rating:** l 2VDr/l 35mA (provided by the alarm controller or separate power supply)
- **Board current draw:** 35mA (set and unset state)
- **Board dimensions:** 45mm x 92mm
- **VAUX output ratings:** l 2VDC, -15%/ + l 0% when Input voltage is between 85% to 110% of rated value and output current is between OmA- l OOmA max.
- Resettable fuse (PTC) used on circuit board instead of replaceable fuses

Terminal Descriptions



- **TAM:** Used to tamper the cabinet in which the PC5108 is mounted. Connect a normally closed (NC) switch across TAM and BLK. If the tamper is not being used connect a piece of wire across TAM and BLK to remove the trouble condition.

There is a built-in tamper switch on the expander module located in the top left corner of the circuit board. If the cabinet in which the PC5108 is mounted has the hardware required to depress this tamper switch, do not connect anything to the TAM terminal.

- **VAUX-** Used to provide power for devices. Maximum current draw is not to exceed l 00 mA. Connect the positive lead of powered devices to VAUX and the negative to BLK or any COM terminal.
- **KEYBUS –** The 4-wire Keybus connection is used by the panel to communicate with the module. Connect the RED, BLK, YEL and GRN terminals to the KEYBUS terminals on the PCl 616, PCl 832, PCl 864, PC50l 0, PC5015 & PC5020 main control.
- **Zl to ZS –** Wire the zones according to the description found in the control panel Installation Manual.

Enclosures

The PC5108 can be installed in the metal enclosures listed below. Tamper protection switches can be installed on all enclosures, including door opening protection and/or removal from the mounting position. Doors can be secured using screws or keylock.

- **Model PC5003C (**removable door) made of 22Ga steel, painted.
  Dimensions: 248mm{L) x 298mm(W) x 7 6mm{H), Weight: 1500g.
- **Model PC5003C** {hinged door) made of 1.2mm thick steel, painted.
  Dimensions: 248mm{l) x 298mm(W) x 76mm{H), Weight: 2500g
- **Model Power** UCl made of l 8Ga steel, painted.
  Dimensions: 315mm{L) x 319mm(W) x l OOmm{H), Weight: 3150g.
- **Model PC4003C** made of l 8Ga steel, painted
  Dimensions: 230mm{L) x l 80mm(W) x 75mm(D), Weight: l 050g.

Jumper Settings

The PC5108 module can be used to add up to 8 additional hardwired zones to the PCl 616, PCl 832, PCl 864, PC5010, PC50l 5 or PC5020 control panel (see Installation Manual for complete installation instructions).

Jumpers

- On control panels with software versions 3.x and higher, the PC5108 v2.0 will operate in a single group of eight zones. Refer to the following jumper settings:

Expander Zones	Jumpers			Zones Assigned
Group A (Zones1-8)	J1	J2	J3	
Group B (not used)				
	ON	ON	ON	Zones Disabled
	OFF	ON	ON	Zones 9-16
	ON	OFF	ON	Zones 17-24
	OFF	OFF	ON	Zones 25-32
	ON	ON	OFF	Zones 33-40
	OFF	ON	OFF	Zones 41-48
	ON	OFF	OFF	Zones 49-56
	OFF	OFF	OFF	Zones 57-64

- On control panels with software versions 2.x and lower, the PC5108 v2.0 will operate in two groups of four zones. Refer to the following jumper settings:

Expander Zones	Jumpers			Zones Assigned
Group A (Zones1-4)	J1	J2	J3	
Group B (Zones 5-8)	J4	J5	J6	
	ON	ON	ON	Zones Disabled
	OFF	ON	ON	Zones Disabled
	ON	OFF	ON	Zones 9-12
	OFF	OFF	ON	Zones 13-16
	ON	ON	OFF	Zones 17-20
	OFF	ON	OFF	Zones 21-24
	ON	OFF	OFF	Zones 25-28
	OFF	OFF	OFF	Zones 29-32

To Add Hardwired Zones lo a Control Panel

1. Connect module to the Keybus {with the panel powered down).
2. Set the jumpers on the module.
3. Power up the system.
4. Enter section [902] and wait l minute.
5. Enter section [903] to verify that the module is supervised.
6. Define the zones in sections [002]-[004], [l 09]-[l 64] for PCl 616, PCl 832, PCl 864, PC5010, or PC5020.
7. Add the zones to the appropriate partition in sections [202]-[265].

LIMITED WARRANTY

- Digital Security Controls warrants that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use and that in fulfilment of any breach of such warranty, Digital Security Controls shall, at its option, repair or replace the defective equipment upon return of the equipment to its factory. This warranty applies only to defects in parts and workmanship and not to damage incurred in shipping or handling, or damage due to causes beyond the control of Digital Security Controls such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment.
- The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether expressed or implied and of all other obligations or liabilities on the part of Digital Security Controls. This warranty contains the entire warranty. Digital Security Controls neither assumes responsibility for, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product. In no event shall Digital Security Controls be liable for any direct or indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product.

  Warning: Digital Security Controls recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical

disruption, it is possible for this product to fail to perform as expected.

FCC COMPLIANCE STATEMENT

CAUTION: Changes or modifications not expressly approved by Digital Security Controls could void your authority to use this equipmenL
This equipment generates and uses radio frequency energy and if not installed and used properly, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for Class B device in accordance with the specifications in Subpart "B" of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in any residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to television or radio reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna
- Relocate the alarm control with respect to the receiver
- Move the alarm control away from the receiver
- Connect the alarm control into a different outlet so that alarm control and receiver are on different circuits.

  If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the FCC useful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Govermnent Printing Office, Washington D.C. 20402, Stock# 004-000-00345-4.

ABOUT COMPANY

- DSC. ©2008 Digital Security Controls Toronto, Canada
- **www.dsc.com**
- **Tech. Support:** 1-800-387-3630
- (Canada & U.S.), 905-760-3036

Documents / Resources

	**DSC PC5108 Power Series Security System** [pdf] Installation Guide PC5108 Power Series Security System, PC5108, PC5108 Power Series, Power Series Security System, Security System