

# NT9204 Installation Instructions

**Keybus** - The 4-wire Keybus connection is used by the NT9005 to communicate with a module. Connect the BLK, YEL and GRN terminals to the B, Y1 and G2 terminals (respectively) on the NT9005 control panel. The NT9204 can be located up to 500ft (152m) from the NT9005. **NOTE: Do not connect the RED of the NT9204 to the RED of the NT9005.**

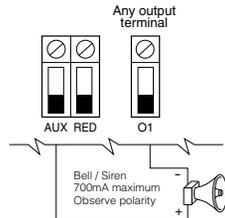
**!** The red Keybus terminal on the backup communicator module must **NOT** be connected to the RED terminal of the NT9204 module. All modules must be powered from the AUX terminal of the NT9204 module.

**Outputs 01 to 04** - Wire the positive lead of the device to the AUX terminal and the negative lead to the required output terminal (01 to 04).

**!** Output 01 is supervised. If 01 is not used, if no continuous load is connected, or if a siren is connected, a 1000 Ohm resistor, DSC model EOLR-1 must be connected in order to prevent the indication of a trouble condition (see below).

The following is an example of how to wire various devices to the outputs:

**NOTE: The NT9204 is not suitable for fire alarm annunciation.**



## Limited Warranty

Digital Security Controls Ltd. 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 fulfillment of any breach of such warranty, Digital Security Controls Ltd. 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 Ltd. 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 Ltd. This warranty contains the entire warranty. Digital Security Controls Ltd. 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 Ltd. 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 Ltd. 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 Ltd. could void your authority to use this equipment.

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. Government Printing Office, Washington D.C. 20402, Stock # 004-000-00345-4.



The NT9204 module can be used for different applications. If a LINKS2X50 or Skyroute communicator is to be connected to the NT9005, the NT9204 must be used to step up the 6V Keybus from the NT9005 to a 12V Keybus in order for these communicators to function properly. If an external siren is needed on the system, the NT9204 can be used, as it will provide up to 1.0A of current, battery backup and outputs required to drive a siren. The NT9204 can also be used as a programmable output expander. If more than 2 PGM outputs are required, the NT9204 can be added to the system to provide a total of four outputs.

## Programming the NT9005 for use with NT9204:

In order for the NT9005 and NT9204 to work with each other, in Section [018] of the NT9005 programming, Option 1 "Keybus Enabled" must be "ON".

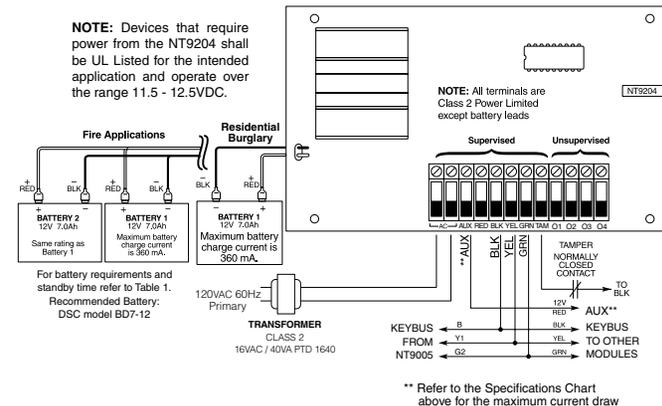
## Specifications

Table 1

| NT9204                        | Residential Burglary | Residential Fire                    |
|-------------------------------|----------------------|-------------------------------------|
| Current Draw 20mA             |                      |                                     |
| Max. Aux Current Draw @ 12Vdc | 1A                   | 550mA                               |
| Transformer Requirements      | 16V, 40VA            | 16V, 40VA                           |
| Battery Requirements          | 7Ah min              | 14Ah min (2x7Ah)                    |
| UL Listed Enclosures          | PC500C               | PC5003C (Household Fire & Burglary) |
| Standby Time (min.)           | 4 hours              | 24 hours                            |

## Terminal Descriptions

**NOTE:** Devices that require power from the NT9204 shall be UL Listed for the intended application and operate over the range 11.5 - 12.5VDC.



**AC** - Supervised, the NT9204 requires a 16V/40VA transformer. Connect the primary of the transformer to an unswitched AC source (maximum current draw is 0.5A) and connect the secondary of the transformer to these terminals.

**AUX+** - This terminal is used to provide power for devices & modules. Please refer to Table 1 for maximum ratings. Connect the positive lead of powered devices to AUX and the negative to the proper output terminal (O1 to O4).

**TAM** - This can be used to tamper the cabinet in which the NT9204 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.



NT9204

Power Supply / Four High Current  
Outputs Module  
Version 1.0

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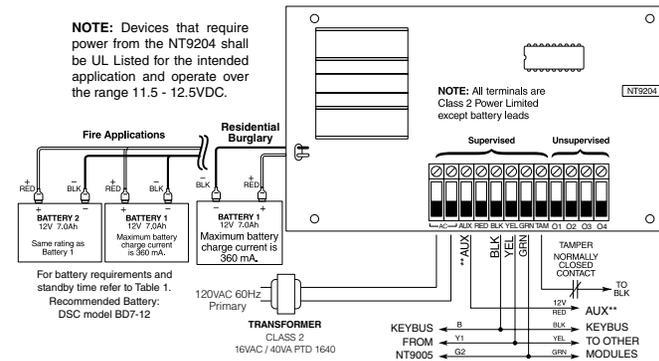
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\*\* Refer to the Specifications Chart above for the maximum current draw

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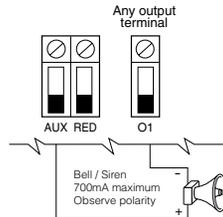
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