NT9202 - Output Module for the NT9010

The NT9202 features two open collector outputs (50mA max.). PGM1 output activates when burglary events occur and the PGM2 output activates when a fire event occurs.

This module has different applications. It can be used to trigger an external siren, a backup communicator (SkyRoute UT, long range radio etc.), and it can also be used to trigger a generic X-10 device (Powerflash) for home automation. It can also be used as a tamper module. It can be set up to trigger a siren or backup communicator in the event that the NT9010 is tampered with, by removing it from its mounting location.

Connecting the NT9202 to the NT9010

To connect the NT9202 to the NT9010 simply make a connection between the RED, BLK and GRN terminals of the NT9010 to the RED, BLK and GRN terminals on the NT9202. The NT9202 can be located up to 500ft (152m) from the NT9010.

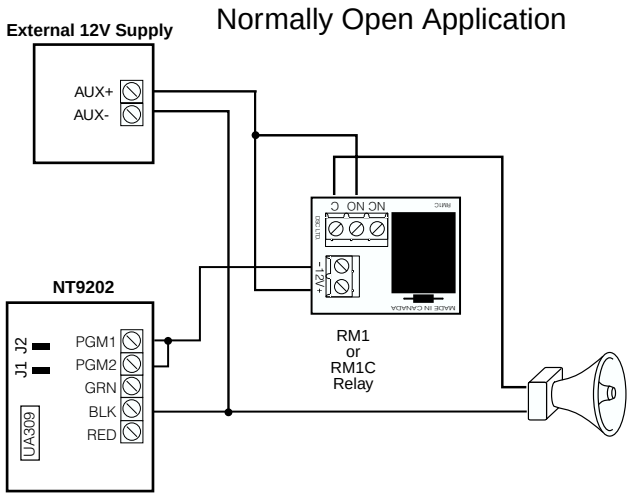
Jumper Settings

There are two jumpers on the board and these are labeled as J1 and J2. These jumpers are used to configure how the outputs on the NT9202 will react when activated.

	J1	J2
ON	Both outputs are Normally Open	BURG output is steady; FIRE output is pulsed
OFF	Both outputs are Normally Closed	Both outputs are steady

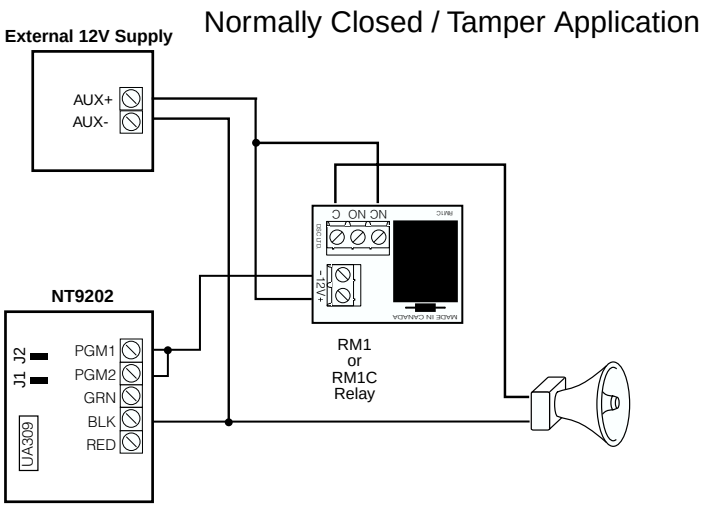
Please refer to the diagrams below for examples of the various applications of the NT9202 module.

Diagram 1: Connection of the NT9202 to a Siren



Red terminal is power from the NT9010
Blk terminal is common from the NT9010
Grn terminal is data from the NT9010

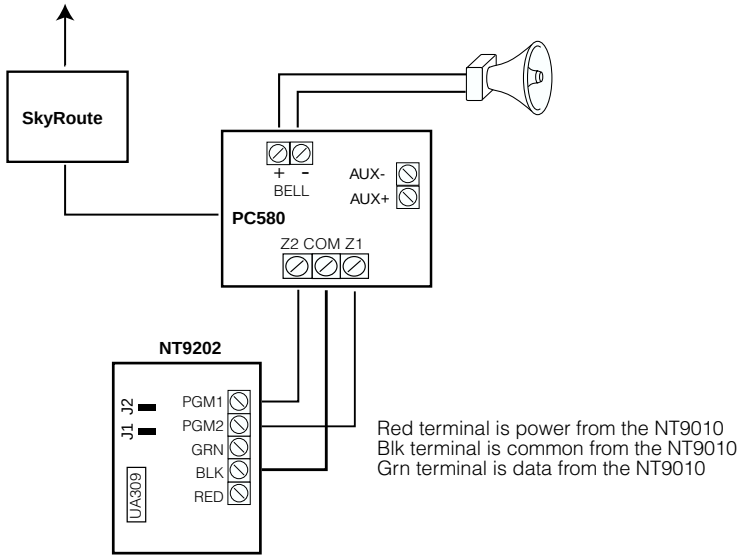
In this application, with Jumpers J1 and J2 ON, the Burglary and Fire outputs will activate on their respective events. The Burglary output is a steady output and the fire output will be pulsed.



Red terminal is power from the NT9010
Blk terminal is common from the NT9010
Grn terminal is data from the NT9010

In this application, with Jumper J1 OFF, when a burglary or fire event occurs, the outputs will open and cause an alarm. If the NT9010 is removed from its mounting location and the NT9202 loses power, the outputs will open and the siren will activate.

Diagram 2: Connection of the NT9202 to a SkyRoute UT

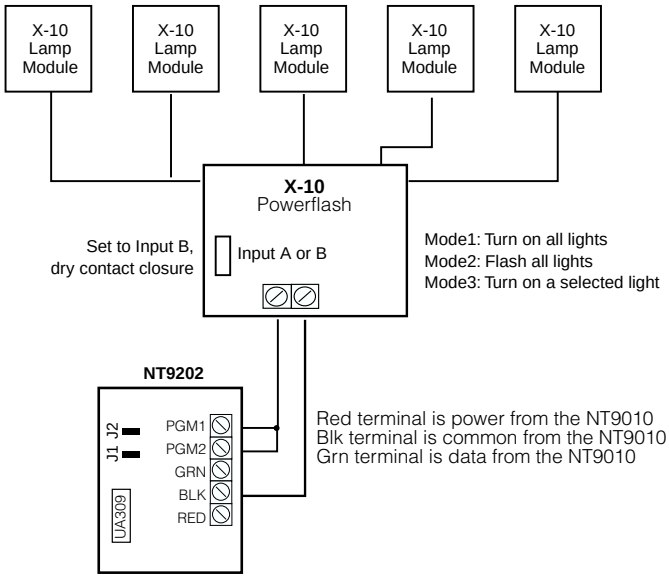


Red terminal is power from the NT9010
Blk terminal is common from the NT9010
Grn terminal is data from the NT9010

In this application, with Jumpers J1 and J2 OFF, the Burglary and Fire outputs will deactivate, which will trigger their respective zones on the PC580, which will activate the SkyRoute backup communicator. If the NT9010 is removed from its mounting location, power will be lost to the NT9202. This will cause the outputs to deactivate, sending a signal to the Central Station.

NOTE: The PC580 will need to be configured for Normally Closed zone operation; otherwise, EOL resistors need to be used.

Diagram 3: Connection of the NT9202 to X-10



In this application, with Jumper J1 ON and J2 OFF, when a Burglary or Fire event occurs, the output will trigger the Powerflash X-10 module to turn on the lights.

Operational Notes

1. If the Verbal Alarm feature is enabled on the NT9010 and the NT9202 is set for constant output, the PGM turns off when the verbal alarm annunciation occurs. If the NT9202 is used to trigger a siren, this is the desired operation. If using the NT9202 to trigger a generic radio, an alarm will be triggered as the output turns on and off.
   If using the NT9202 with the Skyroute UT, on the PC580, set the restorals to follow bell timeout, so that only 1 transmission will be sent for the bell timeout period. If the Verbal Alarm feature can be disabled, this is advisable.
2. Do not connect both an NT9201 and an NT9202 on the system at the same time. If you are using an NT9201 it has its own Fire and Burglary (1) output which can be used to trigger a siren or communicator.
3. The NT9202 does not have the ability to block the outputs from activating during a system test or during an audible exit fault condition.
   If using a backup communicator, it is advisable to let the monitoring station know when a system test is being performed so that they know they can ignore the alarm signal they will receive from the communicator. The same principle just decribed for the system test applies for Audible Exit Fault, if enabled on the NT9010.
4. If a burglar alarm is generated during a fire alarm the burglary output will not turn on. If the burglary alarm is initiated first, then a fire alarm, the burglary output will turn off and the fire output will turn on.
5. With the option "TLM Audible when Armed" enabled on the NT9010, a phone line trouble while armed will cause the burglary output to turn on as this activates the bell on the NT9010. In this instance, there is the potential for a false alarm when using a backup communicator.

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 has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television 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.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

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.

This device complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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