Wiring

M2M's MN / MQ Series
Cellular Communicators
to

DSC PC1616 / 1832 / 1864

and
Programming the Alarm Panel

CONTENT

**CAUTION:**
- **It is advised that an experienced alarm installer programs the panel as further programming may be required to ensure proper performance and use of the full functionality.**
- **Do not route any wiring over circuit board.**
- **Full panel testing, and signal confirmation, must be completed by the installer.**

Wiring MN01, MN02 and MiNi communicator series for events reporting and remote control via keybus*:
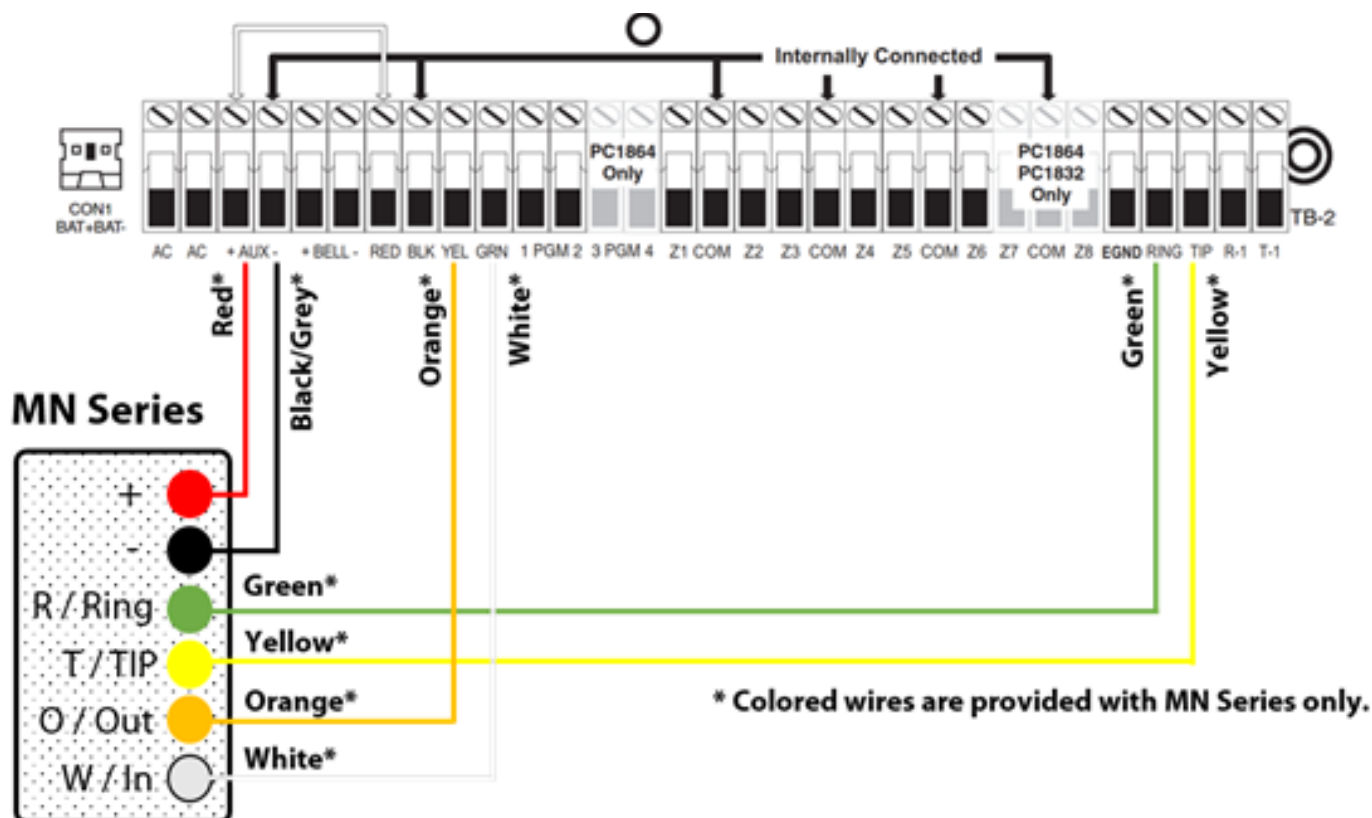
Remote control via the keybus allows you to arm/disarm or arm in stay multiple partitions, bypass zones and get the status of the zones

Wiring MQ03 communicator series for events reporting and remote control via keybus*:
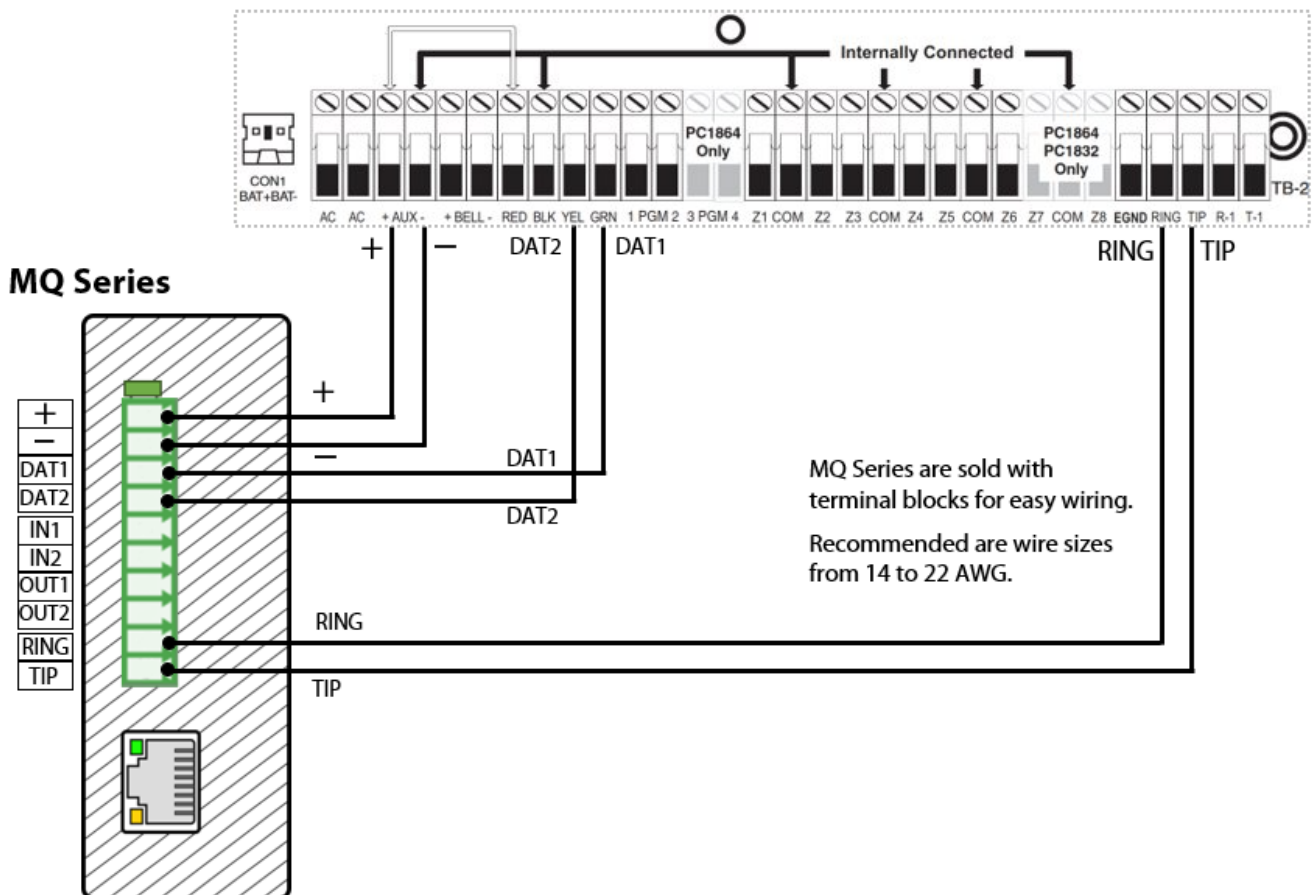
Remote control via the keybus allows you to arm/disarm or arm in stay multiple partitions, bypass zones and get the status of the zones

Programming the dialer of the alarm panel

LED indication on Keypad	Keypad Entry	Action Description (LED keypad)
Ready: steady Green	*8 + Inst. Code	To enter in Programming mode.
Armed: steady Red	301	To enter section" First phone number"
Ready: steady Green	123456*6*#	Enter actual or non-existing number (any number will do, "123456" is an example) followed by *6*(HEX [F]).
Armed: steady Red	310	To enter section "System account code"
Ready: steady Green	1234*66	Enter 4-digit account number to receive the events from ("1234" is an example) and close it with *66(HEX [FF]).
Armed: steady Red	311	To enter section "Partition 1 account number"
Ready: steady Green	1234	Enter 4-digit account number to receive the events from ("1234" is an example).
Armed: steady Red	350	To enter section "Communicator Format Options"
Ready: steady Green	03#	03 is for Contact ID (you can program SIA or Pulse* as well)
Armed: steady Red	351	Alarm/Restore Communicator Call Directions for partition 1
Ready: steady Green	1#	Toggle 1 - ON to enable Alarm/Restore reports (Default option is ON). (if you have more partitions, repeat this and the next step for 352-358 for partition 2-8).
Armed: steady Red	367	Open/Close Communicator Call directions for partition 1 (if you have more partitions, repeat this and the next step for 368-374 for partition 2-8).
Ready: steady Green	1#	Toggle 1 - ON to enable Open/Close reports (if 1 on the keypad is lit – then it is ON).
Armed: steady Red	380	To enter section "First Communicator Options Code"
Ready: steady Green	1#	Toggle 1 - ON to enable the system communicator (options 3 and 4 must be OFF).
Armed: steady Red	381	To enter section "Second Communicator Options Code"
Ready: steady Green	7#	Toggle 7 - OFF. The system automatically generates all reporting codes transmitted. To manually program the reporting codes in the section 381, enable option 7 to ON and then set the desired reporting codes in menus 320 to 349.
Armed: steady Red	#	Exit Programming mode

*Pulse format requires additional configuration in the M2M administrative platform or administrative app

Configuring the Keybus Functionality
Power OFF and power ON the communicator, wait for ~20 sec., and enter and exit programming mode on the panel to initiate synchronization with the panel.
**OR**
Log in the RControl App and press Sync with Panel and follow the instructions in the App.

NOTE: If panel programming is changed after the initial synchronization you need to:

Go to RControl App Settings >> Remote Arming/Disarming >> Press Sync and follow the instructions in the App

NOTE: DO NOT operate the keypad during the sync process

Wiring MN01, MN02 and MiNi communicator series for remote control via keyswitch* zone:
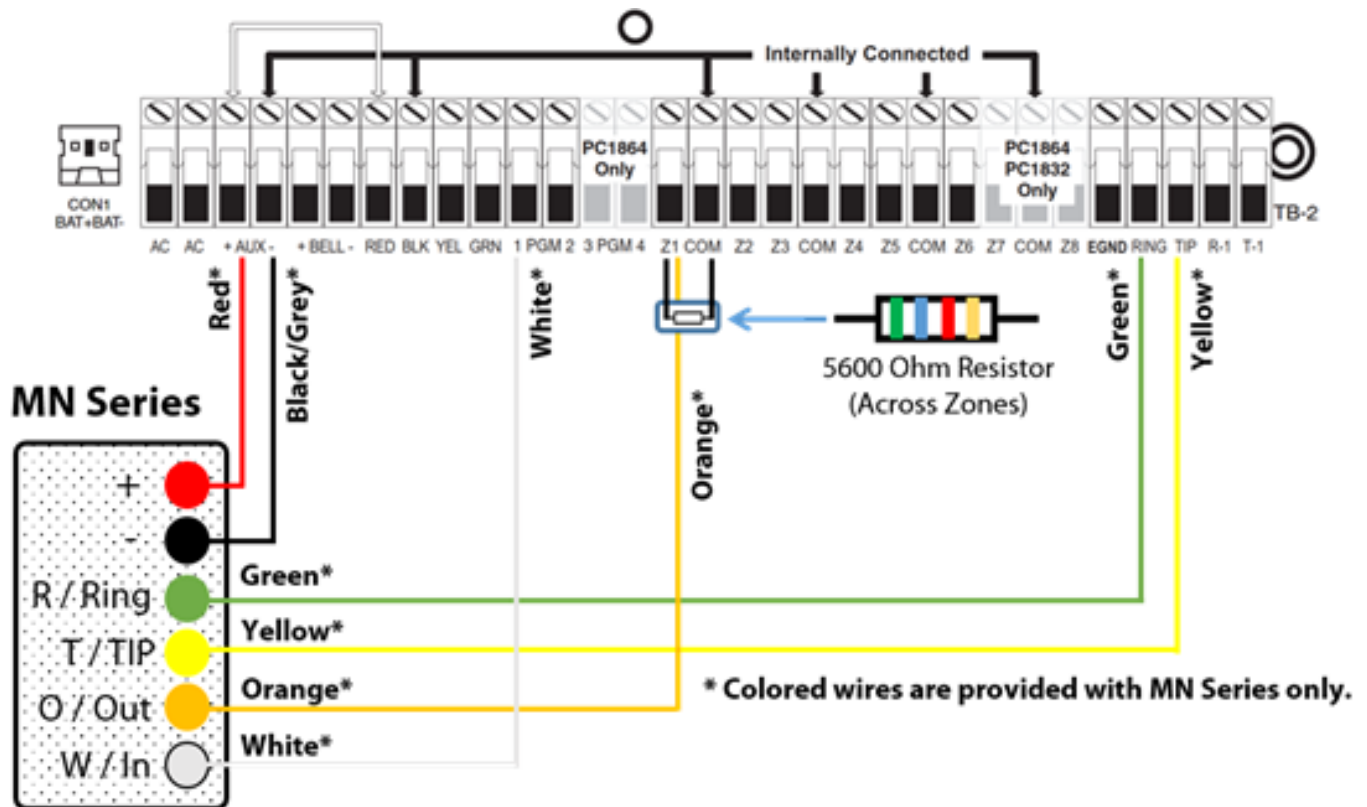
*The optional keyswitch configuration can be used for M2M communicators that do not support keybus functionality.
You do not need to configure this option if your device supports remote control via the keybus.

Wiring MQ03 communicator series for remote control via keyswitch* zone:
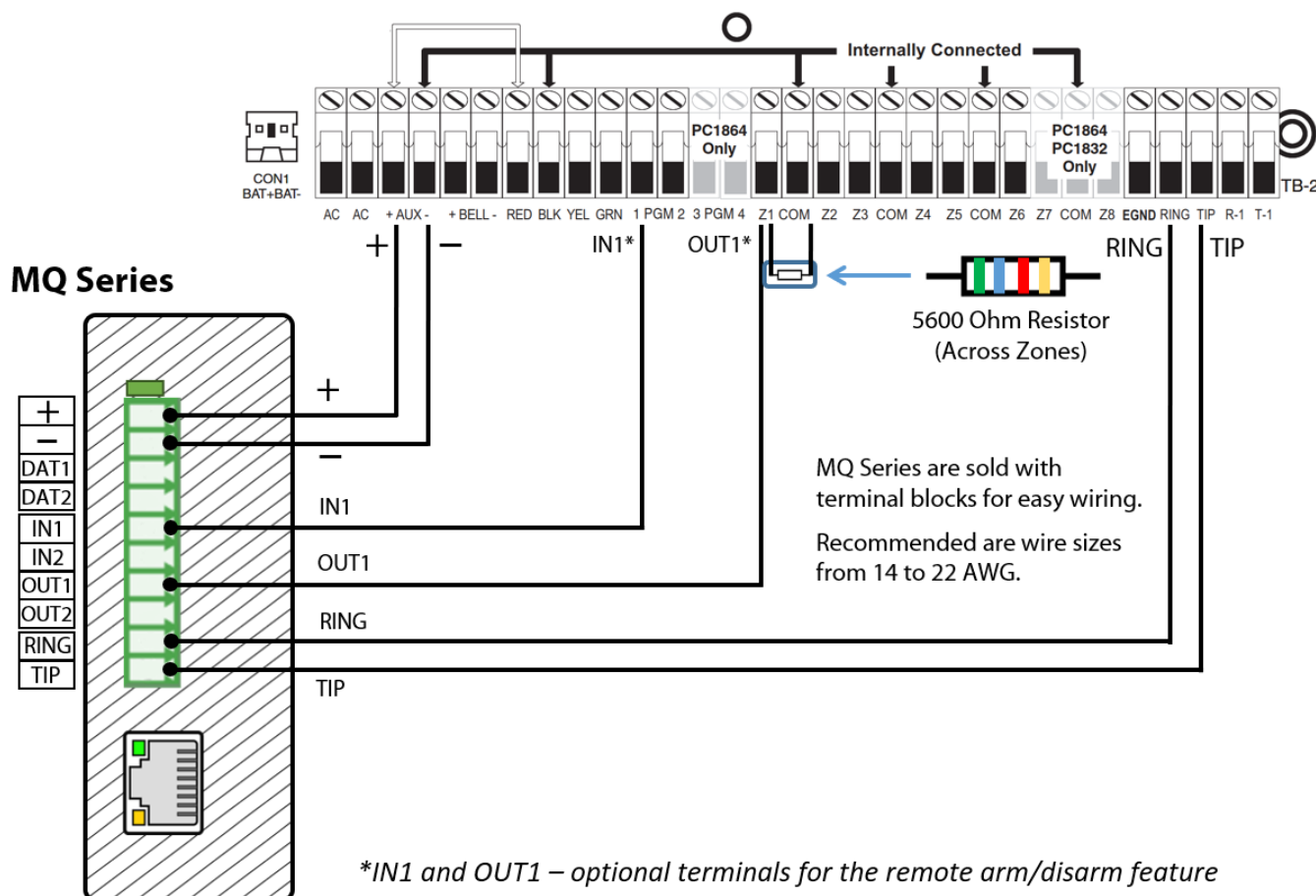
The optional keyswitch configuration can be used for M2M communicators that do not support keybus functionality. You do not need to configure this option if your device supports remote control via the keybus.

Optional Keyswitch zone and status PGM panel programming

LED indication on Keypad	Keypad Entry	Action description
Ready: steady Green	*8 + Inst. Code	To enter in Programming mode
Armed: steady Red	202	To section "Partition Zone Assignment"
Ready: steady Green	1#	Turn ON (the corresponding LED will be lit) only the zones that you intend to use – the rest must be OFF (LEDs are dim) – in our case LEDs 2-7 will be OFF.
Armed: steady Red	001	To configure Zone 1
Ready: steady Green	22#	Enter 22 to program the zone type as "Momentary Keyswitch"
Armed: steady Red	013	To section "First System Option Code"
Ready: steady Green	1#	1 must be OFF to set the zones to end-of-line wiring configuration
Armed: steady Red	009	To section "PGM1 and PGM2 Output Programming (Main Panel)"
Ready: steady Green	05#	System Armed Status - output will reflect the status of the alarm panel – activate when the panel is armed and deactivate when it is disarmed.
Armed: steady Red	#	Exit Programming mode

Initial pairing procedure for Remote Arming/Disarming via Keyswitch:
- Enable Open/Close reporting (at least during the initial pairing procedure).
- Log in the RControl App and press Sync with Panel
- Ask the end user to enter a Remote PIN code of his/her choice.
- Disarm (or Arm) from the keypad within 2 minutes to complete the pairing.

Switching from Keyswitch to Keybus remote control

✓ Wire the device to the panel according to the wiring diagram for keybus remote control.
✓ Press the Sync with Panel button in the Settings menu of the RControl mobile app.

The device will apply the new configuration automatically.

NOTE: When switching the wiring of the device, make sure that the device is not powered on.

NOTE: When synchronizing or disabling and enabling the Arming/Disarming feature from the mobile application, make sure:
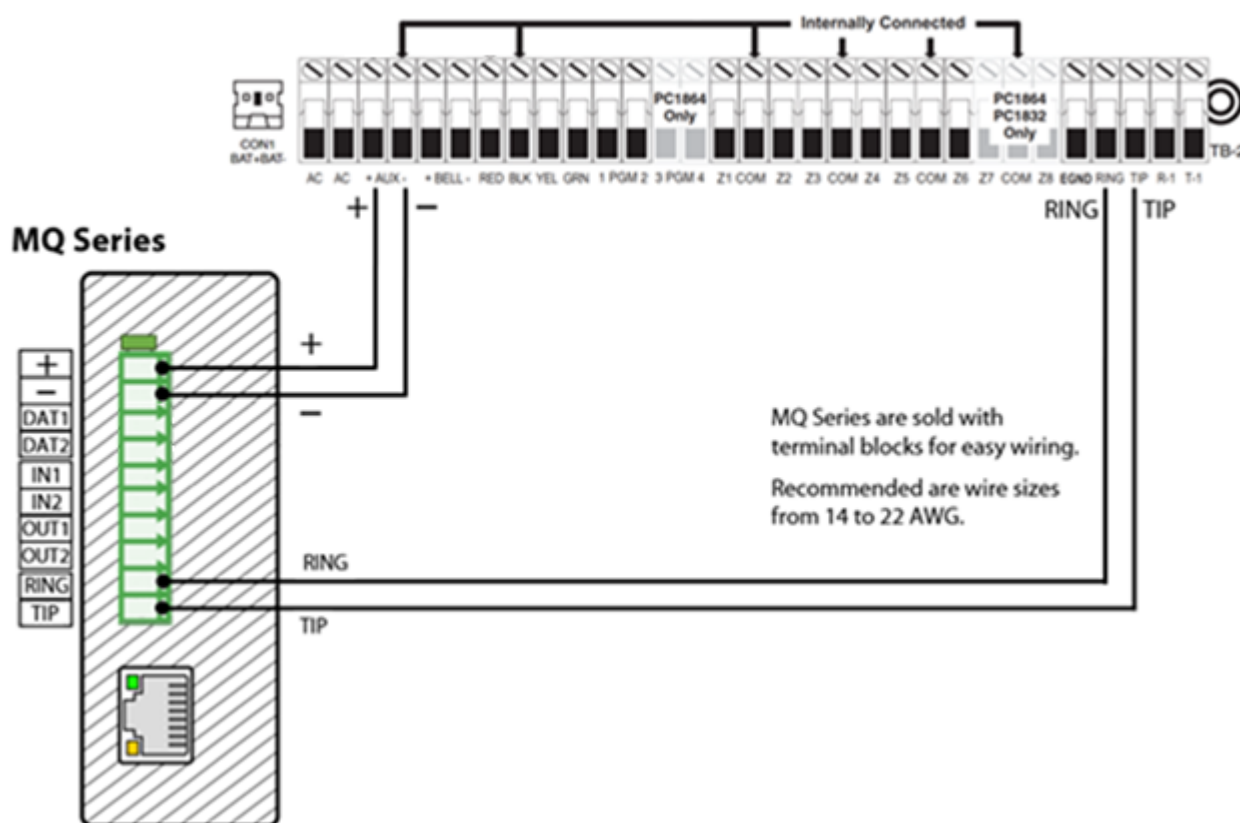- the device is powered up and connected to the cellular network.
- the panel is not in programming menu/mode.

After enabling the Arming/Disarming feature it may take up to 1 minute for the device to apply the new configuration.

Wiring MN01, MN02 and MiNi communicator series with MN01 Ringer for UDL
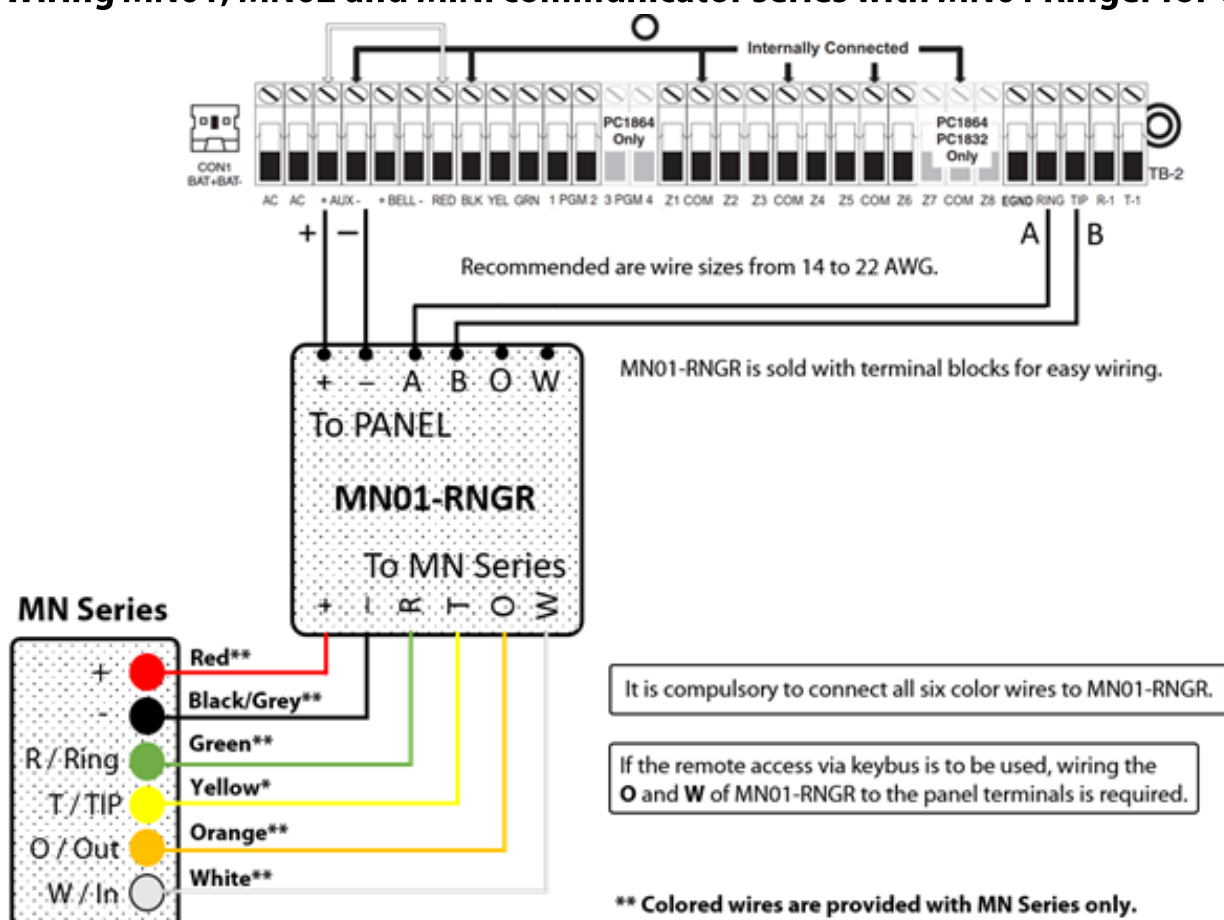
Wiring the MQ03 communicator series for UDL

Programming the alarm panel via the keypad for remote Upload/Download (UDL)

Program the Panel for Upload/Download (UDL):

Display	Keypad Entry	Action Description
Ready: steady Green	*8 + Inst. Code	Enter programming menu.
Armed: steady Red	401	To section "First Downloading Option Code"
Ready: steady Green	1,3,6#	1 and 3 must be disabled. 6 must be enabled.
Armed: steady Red	403	To section "DLS Downloading Access Code / Panel ID Code"
Ready: steady Green	161600	Enter an access code. Default codes: - PC1616 -> 161600 - PC1832 -> 183200 - PC1864 -> 186400
Armed: steady Red	404	To section "Panel ID Code"
Ready: steady Green	161600	Enter a panel ID code. Default codes: - PC1616 -> 161600 - PC1832 -> 183200 - PC1864 -> 186400
Armed: steady Red	405	To section "Answering Machine double Call Timer"
Ready: steady Green	001#	Disable double call (default is 060).
Armed: steady Red	406	To section "Number of Rings to Answer On"
Ready: steady Green	001	Set the panel to answer on the first ring (default is 000).
Armed: steady Red	#	Exit Programming mode.