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QUICK REFERENCE

BULLETIN 193
DeviceNet™ Configuration Terminal

CATALOG NUMBER 193-DNCT

IMPORTANT For complete information, see the DeviceNet configuration Terminal User Manual, Publication Number 193-UM009A-EN-P, available at the Rockwell Automation Literature Library: http://literature.rockwellautomation.com

Bill of Material

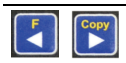
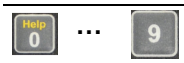
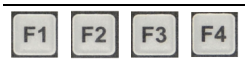
Your 193-DNCT product package includes the following items:

Item	Description	Quantity
193-DNCT	DeviceNet Configuration Terminal	1
193-CB1	1 m DNCT Cable with color-coded bare leads	1
193-QR002_-EN-P	DeviceNet™ Configuration Terminal Quick Reference	1

Accessories

Description	Catalog No.
1 m DNCT Cable with color-coded bare leads	193-CB1
1 m DNCT Cable with microconnector (male)	193-CM1
Door mount bezel kit	193-DNCT-BZ1
Mini-Mini-Micro Tee for connection to ArmorStart	1485P-P1R5-MN5R1
5-pin connector	1787-PLUG10R

Key Descriptions

	Escape Key. Exit a menu or cancel a change.
	Select key. Select a value or digit or screen choice.
	Increment key. Scroll through options, increase a value, or toggle a bit.
	Decrement key Scroll through options, decrease a value, or toggle a bit
	Enter key. Enter a menu, enter a mode or enter a value.
	Scroll left or right keys. Scroll left or right through a value.
	Shift key. Small values (yellow text) on top of keys are entered when after the shift key.
	Used to enter numbers.
	Used to enter a decimal place for a number.
	Used to negate a numeric value
	Programmable function keys. See DeviceNet Configuration Terminal Setup Menu description. Used to add a sign character when editing a value.
	Programmable Reset key. See DeviceNet Configuration Terminal user manual.

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Shifted Key Descriptions

The following table describes the alternate functionality of each key when it is pressed after the shift key

Key Combination	
SHIFT + A ESC	The letter A. Used to enter values in hexadecimal.
SHIFT + B SEL	The letter B. Used to enter values in hexadecimal.
SHIFT + C ▲	The letter C. Used to enter values in hexadecimal.
SHIFT + D ▼	The letter D. Used to enter values in hexadecimal.
SHIFT + E ↵	The letter E. Used to enter values in hexadecimal.
SHIFT + F ◀	The letter F. Used to enter values in hexadecimal.
SHIFT + Copy ▶	Copy function. Used to copy Class, Instance, and/or Attribute data to the clipboard. Available on screens displaying a small "C" in the upper right.
SHIFT + Exp .	Exponential function. Used to enter values in exponential notation
SHIFT + Paste +/-	Paste function. Used to paste Class, Instance, and/or Attribute data from the clipboard. Available on screens displaying a small "P" in the upper right.
SHIFT + Help 0	Help function. Invoke help information for the current screen.

Powerup

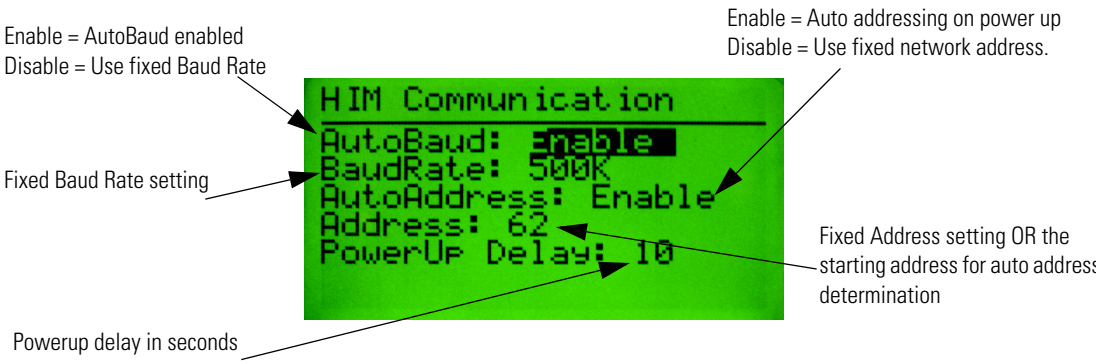
The DeviceNet™ Configuration Terminal is shipped so that when it is placed on the network for the first time, it will automatically set its baud rate to that of the traffic on the network, and then assign itself an unused network address. On power up, the following screen is displayed:

Note that there is a 10-second powerup delay programmed at the factory. The above screen will appear for at least 10 seconds on initial powerup. The powerup delay can be modified in theTerminal Setup screen described in the following section. Once the baud rate is determined and a network address has been set, the terminal will display the "Network Who" screen which displays a list of all devices on the network.

Note: If the terminal fails to enter the "Network Who" screen, after approximately 20 seconds, it is because it could not determine the network baud rate due to lack of traffic on the network. Pressing the **ESC** key will allow the user to enter the Terminal Setup screen so that a fixed baud rate and network address can be set for the terminal.

Note: To go directly to the Terminal Setup screen, press and hold the **ESC** key during powerup.

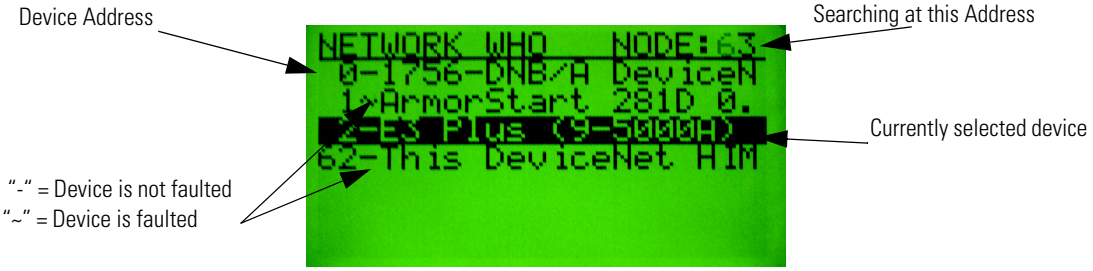
Terminal Setup



To scroll through the items on the screen, press the **SEL** key. To change the value of a selected item, press the **Increment** or **Decrement** key. To commit the new value for use, press the **Enter** (return arrow) key. To exit this screen, press the **ESC** key.

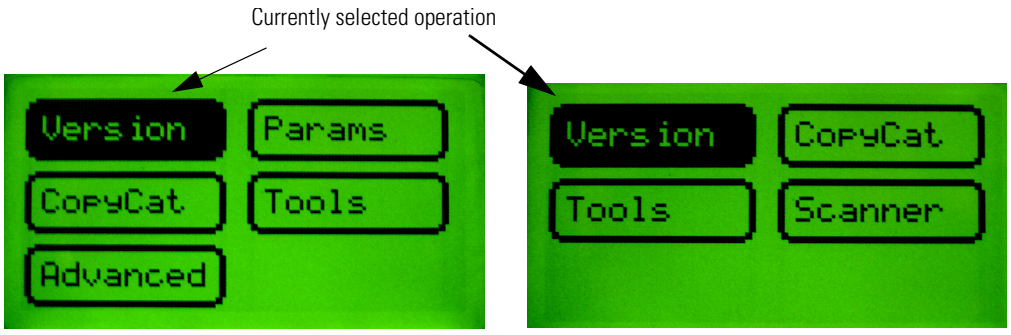
Network Who Screen

The terminal searches for all devices on the network and reports the devices it has found on the Network Who screen. Use the **Increment** or **Decrement** key to scroll through devices. Press **Enter** (return arrow) to invoke the "Device Choices" menu.



Device Choices Menu

This menu allows the user to choose what operation is to be performed for the selected device. The terminal only displays choices that are appropriate for the selected device. The **Increment** and **Decrement** keys allow the operator to scroll through the selections. The **Enter** key will advance to the selected operation.



Version: Displays Version information for the selected device.

Params: Provides access to configuration and status parameters for the selected device. Allows the operator to search for parameters that are not at factory defaults.

Copy Cat: Upload and store complete device configurations, including DeviceLogix™ programs to the programming terminal's memory. Download stored device configurations from the programming terminal memory to the selected device.

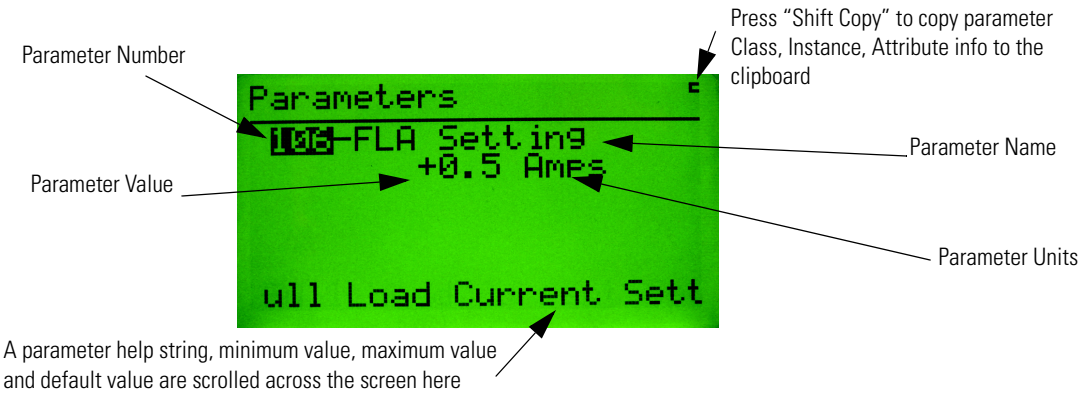
Tools: Provides access to Node Commissioning functions, the Class Instance Attribute editor, and the real time graphing function.

Advanced: Provides access to the DeviceLogix™ editor, DeviceNet IO message timing information, ZIP configuration, and local input and output status display.

Scanner: If the selected device is a DeviceNet scanner, provides access to simple scanner configuration values, and access to the scan list.

Parameter Monitoring and Editing

Parameters can be accessed by groups, or a numbered list of all parameters that can be accessed. The Parameter Screen displays all information for a single parameter. From the Parameter Screen, parameter values can be monitored or edited. Scrolling through a parameter list is accomplished by pressing the **Increment** or **Decrement** keys from the Parameter Screen. Parameters can also be accessed by entering a parameter number with the **numeric** keys while in the Parameter Screen. The parameter screen has the following format:

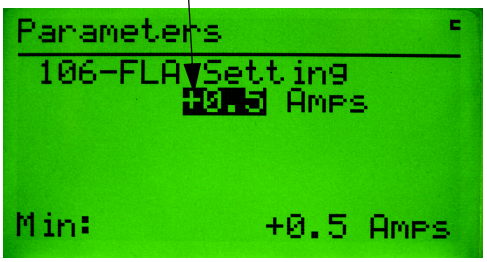


Parameter values are continuously updated.

Change a parameter value by first pressing the **SEL** key and then modifying the selected value.

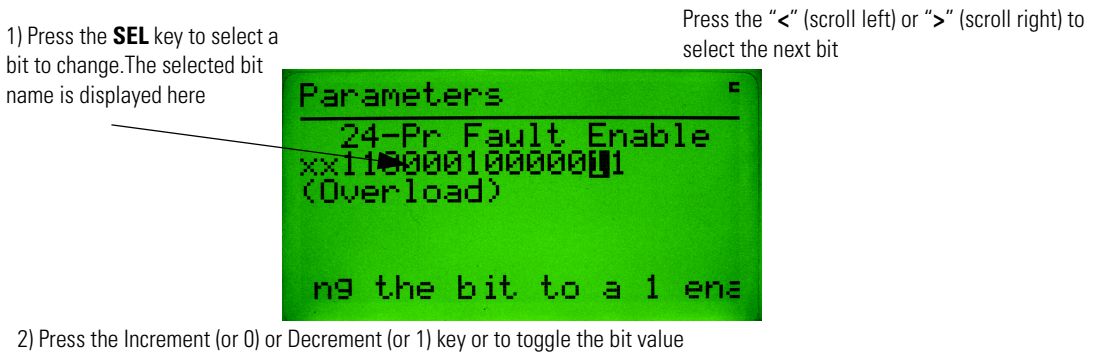
1) Press the **SEL** key to select the value

2) The Increment and Decrement keys increment or decrement the value when it is selected. An edit box will appear when a key is pressed.
OR
Enter a number from the numeric keypad. An edit box will appear when a key is pressed.



Pressing the **Enter** key will write the new value to the selected device. When a parameter value is selected, pressing the **ESC** key will deselect the parameter value and allow you to move within the parameter list or group.

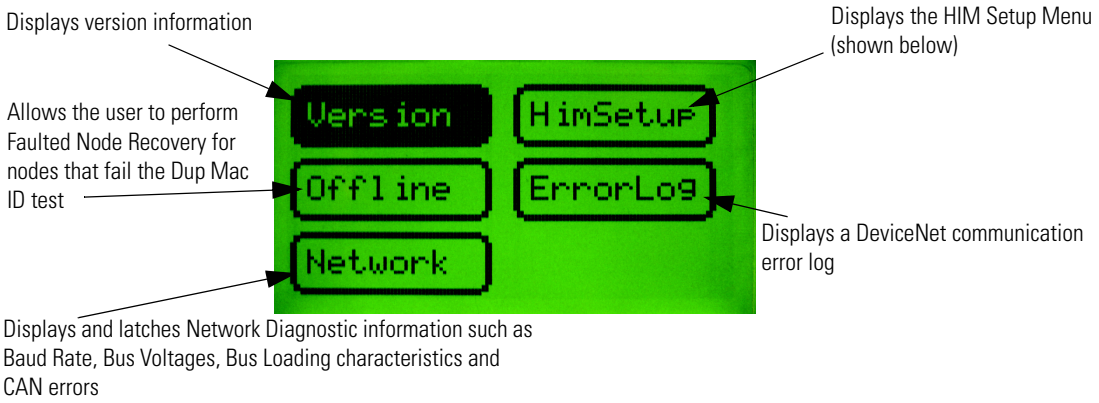
Bit-enumerated parameters are displayed and modified as follows:



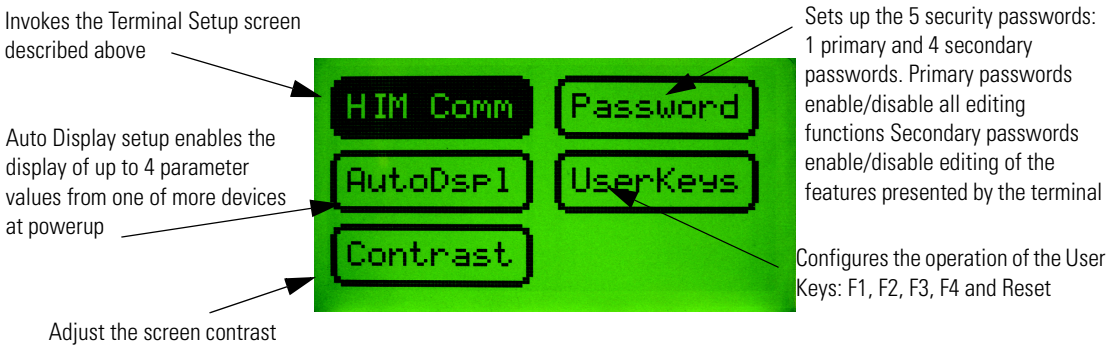
Pressing the **Enter** key will write the new value to the selected device. When a parameter value is selected, pressing the **ESC** key will deselect the parameter value and allow you to move within the parameter list or group. Pressing the **ESC** key will delete all changes that you made and revert to the previous settings.

DeviceNet™ Configuration Terminal Setup Menus

The 193 DeviceNet Configuration Terminal often refers to itself as a "HIM" (Human Interface Module). When "This DNet HIM" is chosen from the "Network Who" screen, the following HIM Choices Menu appears:



The HIM Setup menu allows the user to configure many of the programming terminal features.



193-CB1 Physical Connections

The 193-CB1 cable that ships with the Configuration Terminal has a plug connection to the terminal on one end, and color coded bare leads on the other end. The cable's bare leads are wired to a DeviceNet connector according to the following table.

Signal	Function	Color
V-	Common	Black
Can_L	Signal Low	Blue
Drain	Shield	Non-insulated
Can_H	Signal High	White
V+	Power Supply	Red

Troubleshooting

Condition	Possible Cause
DNCT does not operate when power is applied, No text or backlight on display	Check for proper wiring of the 5 pin DeviceNet connector Check for 24V DC on the DeviceNet Network Verify that the DNCT cable is plugged in to the unit
DNCT powers up, but never continues past the "PowerUp" Screen	Verify that there is traffic on the DeviceNet Network. Press the **ESC** key. At the Terminal Setup screen, disable "Auto Baud" and manually adjust the baud rate
Password is set, and then forgot	Using RsNetworks for DeviceNet, find the DNCT on the network, and set parameter 2 - "Password Override" to override. This will temporarily override the password in the DNCT. The old password can then be viewed and changed from the DNCT. The password is only overridden until the DNCT is powered down

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

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