

Programming the CIM-2000 using the CIM-CABLE

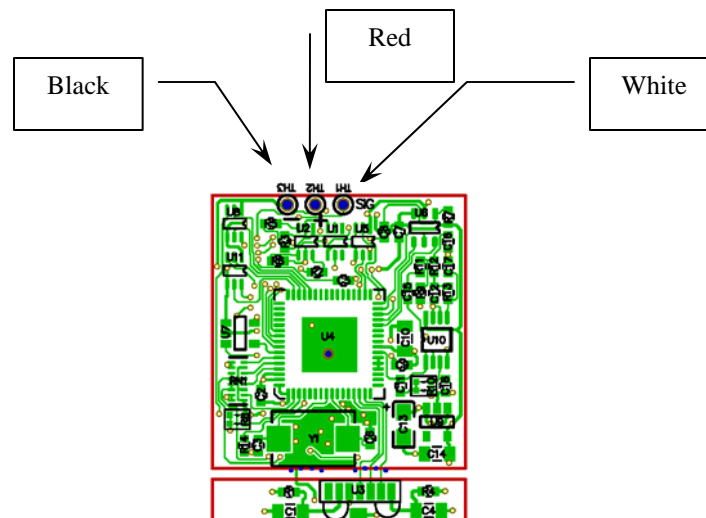
The programming cable, CIM-CABLE, supports connection via a computer serial port with any computer running terminal emulation software. One such program that is included in most Microsoft operating systems is called Hyperterm. Hyperterm is usually accessed under "Programs", "Accessories" and "Communications" in the windows start menu.

Start the Hyperterm program on your computer by double clicking on *Hyperterm.exe* or selecting *Hyperterm* under the Communications menu selection. A *New Connection* window will open. Name the new connection "CIM2000", select one of the available icons and click the "OK" button. A *Connect To* window will open. Under *Connect Using*, select "*Direct to COM1*" and click the "OK" button. A *Port Settings* window will open. Adjust the settings to match the below table and then click the "OK" button:

Parameter	Value
Bits per Second	9600
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None

Once you have made the changes above, go to "File" on the menu bar, select "Properties" then the "Settings" tab. At the bottom of the "settings" window click on "ASCII Setup" and change the "Character Delay" to 3 mS. Accept all changes and save your session under the "File" menu. Then exit Hyperterm completely and restart the session. All future sessions will be correctly configured if you start Hyperterm by selecting your new connection you named "CIM2000".

The CIM-Cable consists of a DB-9 connector that connects to the computer serial port, and three "micro-grabbers" that connect to three programming holes on the CIM-2000. The red grabber is power and must be clamped onto the center programming hole. The white grabber is programming data and the black grabber is ground and must be clamped onto the programming holes as shown below.



Typing \$CIM will cause the CIM-2000 to connect with the terminal emulation software and it will output the following top level menu.

```
CIM-2000 v109
Configurati on Menu
1. Manual
2. UpI d
3. Dnl d
8. Enabl e radi o (i f was Di sabl ed)
9. IO Testi ng
0. Set Confi g Defaul t
X. Exi t confi gurati on menu
```

Important

When you have completed programming the device. Exit program mode gracefully by pressing the '\ ' button to return to main menu and then press 'X' to exit program mode.

>

- Press '1' to enter Group menu level display and view the first group settings.
- Press '2' to upload all parameters in hexadecimal to be stored by Hyperterm.
- Press '3' to download all parameters through Hyperterm.
- Press '8' to manually cancel the disable-radio function
- Press '9' to enter the testing mode.
- Press '0' to reset all parameters to their factory defaults.
- Press 'X' to exit the configuration mode and return to operate.

Pressing '\ ' at any time will return you to the main menu.

Group Menu Level

Entering a "1" selects Manual configuration, and the CIM-2000 outputs the first group programming menu:

```
SI GNALI NG = GESTAR
ID Type : B
ANI ID : 2047
AuxANI ID : 2047
EMR ID : 2047
GROUP ID : 0000
ANI Msg : 01
EMR Msg : 07
TOT Msg : 09
MAN Msg : 0F
Preambl e : 024 bi t
```

This first group defines the signaling type and parameters specific to the selected type. Pressing 't' will "toggle" between GE Star® and MDC-1200®.

```
SI GNALI NG = MDC1200
ANI ID : 1234
AuxANI ID : 1234
EMR ID : 1234
GROUP ID : 000
ANI Msg : 8001
EMR Msg : 8000
MAN Msg : 8000
```

Pressing the 'space' bar selects the first item on the displayed group menu for editing. Additional presses of the 'space' bar, moves you down the list to the next item.

To change an item, space to the item and enter the new desired setting. Changes take effect after pressing the <TAB> or <CR> button. The group will be re-displayed to confirm the changes have been made. If power is removed before moving away from the edited group, the changes will not be stored. To move to the next group, press the <TAB> or <CR> button again.

COMMON

Start ANI : YES
End ANI : NO
ANI RepDI y : 000 Sec
PTT Si detone : NO
PTT Courtesy : NO
ANI becomes Crit : YES
Preamb w/Atk : NO

RADIO INTERFACE

Attack : 300 mS
TOT : 060 Sec
Cont. Data : NO
KeyFol l owsPTT : YES
AuxOut : Cri tChOnce
Mi cMut : Mi cMut
TonCtl : TonCtl
TxLevel : 030 dB
PttIn : actLOW
Sl eepIn : actLOW
Cri ti cal Ch Type : All

TX MODE = CONVENTI ONAL

Pressing 't' will toggle between Conventional mode and Trunking mode. If trunking is selected, trunking related parameters are made available for editing.

TX MODE = TRUNK

KeyTi me : 3000 mS
Debounce : 300 mS
Ti meout : 3000 mS
TrunkAck : actLOW

EMER

RepQty : 005
RepDI y : 010 Sec
Acti veDI y : 000 Sec
WarnTone : NO
In : actLOW
OpnMi cTx : 000 Sec
OpnMi cRx : 000 Sec

MAN-DOWN

RepQty : 005
RepDI y : 010 Sec

ActiveDelay : 005 Sec
WarnDelay : 005 Sec
In : actLOW
OpnMicTx : 000 Sec
OpnMicRx : 000 Sec

DECODE

SelectCallType : Pulse
EnableAcks : YES
AckDelay : 000 mS
SelectiveUnmute : NO