

## REMOTE CONTROL FEATURE

The NT 150 is equipped with a 9 pin RS 232 connector that allows all the mains telemetry functions. The software is supplied with the unit and with this CD rom it's possible to monitor and to change the main parameters of the NT 150 on the computer's screen.

The NT 150 is also supplied with the interlock connector that allows to switch the power on and off simply by grounding the inner conductor of the BNC.

**NOTE:**

**The CD Rom supplied contains the remote control software of the NT 150.**

## REMOTE CONTROL SOFTWARE INSTALLATION

The NT 150 comes with a Serial port RS 232. This port allows a Bi-Directional remote control of the unit from a PC.

### INSTALLING THE SOFTWARE

1. Insert the NT 150 CD-ROM into the CD drive.
2. Run Setup.exe file found in the main folder of the CD-ROM. The installation will continue automatically asking only for the name of the folder of the hard drive where the program will be installed. It will be necessary to reboot the computer.
3. Once installed, the Tx\_Nicom program icon can be recalled by clicking : Start - Programs - Tx\_Nicom icon.

### CONNECTING THE NT 150

The NT 150 is equipped with a Serial Port (RS232) in the rear panel. To connect the computer with the NT 150 we recommend standard serial cables Pin-to-Pin; the lenght of the cable must stay within 60 feet.

**REMEMBER TO CLOSE THE PROGRAM BEFORE REMOVING THE CONNECTING CABLE**

## RUNNING THE PROGRAM

Once the program is running, from the main screen it is necessary to click the POWER ON button; the screen will light up and a message "COMMUNICATION IN PROGRESS" will appear. After few seconds, on the left side of the screen, the operating frequency will appear together with all the other parameters. If not, check the Communication port setting (COM1-COM 2).

To change it, click the File menu and then select "set Port".

The other parameters shown on the screen are the following:

1. Temperature in Celsius (remember that Farheneit is Celsius  $\times 1.8 + 20$ )
2. Lock Indicator showing that PLL circuit of the unit is locked
3. On the Air showing that the unit is transmitting
4. RF Forward giving the amount of Watts radiated
5. RF Reflected giving the amount of reflected power

On the right side of the screen there are four buttons that allow to modify the parameters:

- a. Send Button to be used after a change of frequency is made
- b. Set Frequency allows the change of frequency by clicking the new frequency on the keyboard on the left side of the screen
- c. Disconnect allows to disconnect the system
- d. RF On turns up and down the power

## **NT 150 PROGRAMMING**

Connect a 50 ohm load or 50 ohm antenna to the RF output, connect the equipment into a mains supply (100÷240 VAC). The equipment is factory pre-set to 10 W.

Switch ON the power and the yellow V POWER LED will light.  
The Display will show:

**WAIT**



**PROGRAM**



**SETTING**

After 3 seconds the green PLL LOCK led will light and the Display will show an increasing bar. After a further 5 seconds the green ENABLE LED will light and there will be output power  
At this point the Display will show the next parameter:

- Level Modulation (MOD >)
- Forward Power(FRW10W);
- Reflected Power(RFL 0.4W).

**MOD >  FRW 10W RFL 0.4W**



**PROGRAM**



**SETTING**

The default frequency is 98.000 MHz.

To display the frequency push the SETTING key.

In order to display the parameter push the SELECT key.

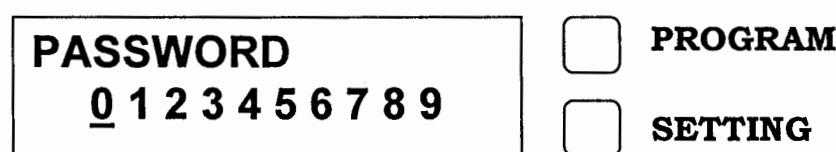
**Display Password**

The Password mode is factory set to enable, and is not possible change this setting.

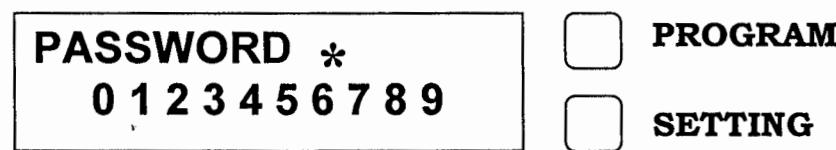
The default password is 1 2 3.

The way for changing the password is the following:

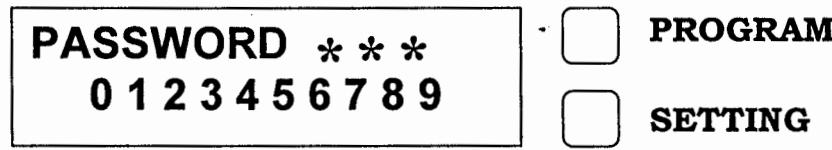
- Press the PROGRAM key for 3 seconds;



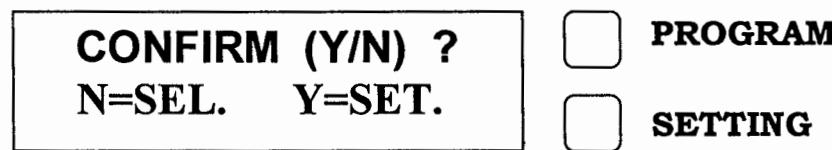
- Press the PROGRAM key to move the underscore character position at the required digit, and press the SETTING key to confirm the digit.



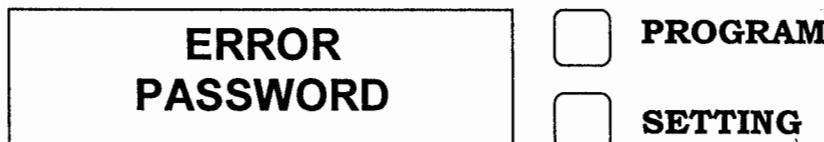
Repeat the same for the two remaining digits.



- If the password is correct press the SETTING key to confirm, otherwise press the PROGRAM key to select again.

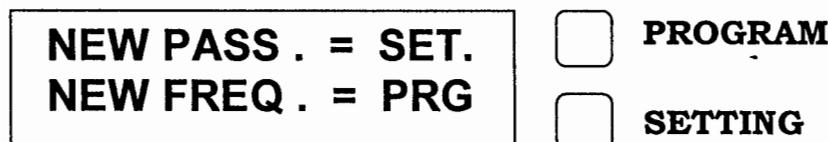


If the password is not correct an error is displayed



After a few seconds the display will show the parameters again.

When the password is correct, the display will show



To change the password press the **SETTING** key.

To change the frequency press the **PROGRAM** key.

## CHANGE OF PASSWORD

The password is set at the factory and corresponds to the numbers 1 - 2 - 3.

However it is possible to set a new custom password.

The main purpose is to avoid somebody to enter your system and modify the main parameters of your settings.

Every new password has to be made with only three numbers.

It is very important that you write somewhere the new password, because once that has been set, it is not possible to change anymore or to make any change if the password is not entered.

### **VERY IMPORTANT:**

**KEEP TRACK OF YOUR NEW PASSWORD !!!!**

- For changing the password proceed with the same method for the required password:

**NEW PASSWORD****0 1 2 3 4 5 6 7 8 9****PROGRAM****SETTING***The confirmation password will be required.***CONFIRMATION****0 1 2 3 4 5 6 7 8 9****PROGRAM****SETTING***If the password is correct the display will show:***STORED  
NEW PASSWORD****PROGRAM****SETTING***If the confirmation password is wrong the display will show:***ERROR  
CONFIRMATION****PROGRAM****SETTING****IMPORTANT NOTE****! BE CAREFUL !**

*Once the password is set, it must be remembered, otherwise neither the frequency nor the password can be reset and the unit has to be sent back to the factory.*

Display Change of Frequency.

- Press the PROGRAM key for 3 seconds and enter the correct password. At this point press again the SELECT key:

**NEW PASS . = SET.**  
**NEW FREQ . = PRG**

**PROGRAM**  
 **SETTING**

- Press the PROGRAM key to change the desired digit and press the SETTING key to confirm it.

**FREQUENCY ?**  
**MHz 103.900**

**PROGRAM**  
 **SETTING**

The underscore character indicates which digit can be change.  
To move the underscore character hit the PROGRAM key.

When the new frequency is chosen, then press the SETTING key confirm it.

After a "WAIT CYCLE", the display will show the parameters:

**MOD > **   
**FRW 5.0W RFL 0.4W**

**PROGRAM**  
 **SETTING**

After 7 minutes the display light will switch off and the display will show:

**NICOM**  
**MHz 103.900**

**PROGRAM**  
 **SETTING**