

UserApp530 - Quick Start Guide

UserApp530 enhances user administration of TRICOR's Model 530 Chocolate Temper Meter and is used to easily view and change parameter values. Other capabilities include upgrading options on a Model 530 without requiring the unit to be returned to the factory.

To install UserApp530 insert the Installation CD into a CD drive on the PC, follow the instructions as they appear. Refer to the readme .txt file on the CD for the latest changes and procedures prior to starting the installation. Note: Run this installation procedure prior to connecting the Model 530 to the PC.



Connect the Model 530 USB connector (rear panel) to a PC USB connector using the USB cable supplied with the unit.

Turn on the Model 530 and wait for the appropriate screen. Communication with the Model 530 is available only when the unit displays the "Ready For Sample", "Enter ID", or "Wait" screens.

Start the UserApp530 program, controls and buttons will be grayed-out (disabled) until communication with the Model 530 is established.

UserApp530 scans PC comm channels 1 through 8, sending the Model 530 a command and waiting for a response on each channel. Once the correct response is received UserApp530 will stop scanning and use that channel for all further communication with the Model 530.

Program features, controls, buttons, etc are detailed in the following sections. Reference the Model 530 Quick Start Guide for detailed parameter descriptions.

Should you have any questions or encounter any problems please contact us at:

TRICOR Systems, Inc.
1650 Todd Farm Drive
Elgin, IL 60123
1-847-742-5542
www.tricor-systems.com


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General program notes and descriptions

Dynamic parameters monitor various circuits within the Model 530 and cannot be changed.

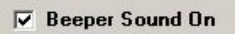
Static parameter values can be changed if any of these objects are associated with the parameter

Change button




UserApp530 will pop-up a new window where a new parameter value can be entered or selected. When "Ok" is pressed UserApp530 will send the Model 530 a command to change the parameter value. If "Cancel" is pressed no change is made.

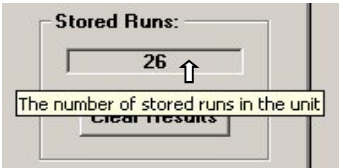
Checkbox



UserApp530 sends a command to the Model 530 to change the parameter value when a checkbox is checked / unchecked or a new item of an option button object is selected.

Option button





Moving the mouse pointer over an object will pop-up a brief description of that objects use.

Status Bar Model 530 information:

Serial Number	Software Version	Stored Data Version	Self-Test Result
COM3:	200	100	1.16
	1.11	0	0x00000000
			1.0.5

PC Comm channel State counter Comm error counter Software Version

Status Bar UserApp530 information:

Program Command buttons (located just above the status bar and visible regardless of which tab is selected):

The "Load Default" button will set all programmable parameters to a factory default value and use the current PC clock value to set the Model 530 clock.

The "Save Setup" button will create a text file that stores the current values of all parameters.

The "Print Setup" button will print the current values of all parameters using the current PC default printer.

The "Close" button will exit the application.

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System Tab

The System tab is the screen that appears when the application is started, click on other tabs to view/change other parameters. This tab shows general unit status.

The "Read Option Upgrade File" command button allows users to upgrade Model 530 options without having to return the unit to the factory. After purchasing an option, TRICOR will send an upgrade file to a customer. The customer then selects this command button to read that file and upgrade the Model 530 option status.

The "Clear Results" command button is used to clear the stored run memory in the Model 530.

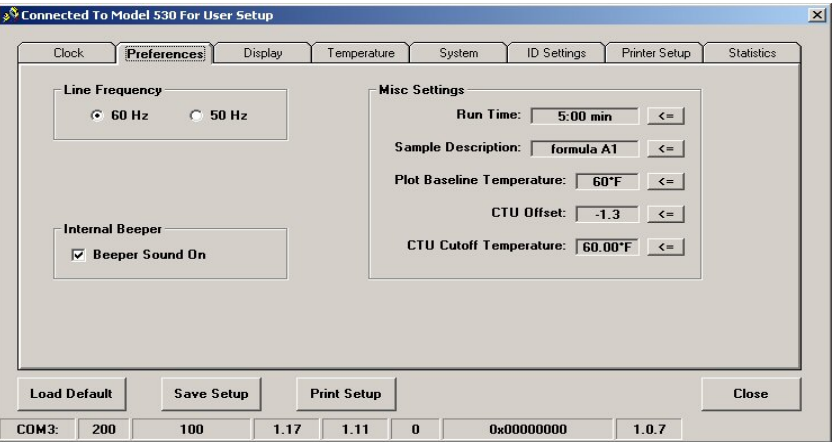
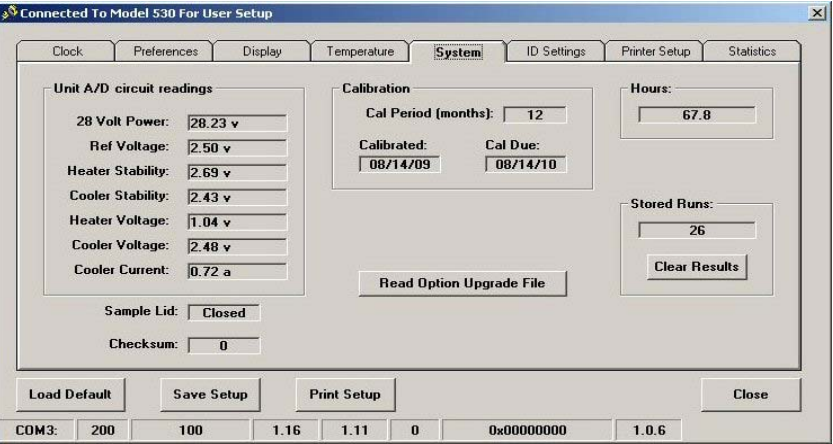
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Preferences Tab

Select the "Line Frequency" to match the facilities AC power line frequency. This setting is used to program the units A/D filter circuit for AC power line frequency.

The "Sample Description" parameter is used to attach a textual description to test runs on the Model 530. This value is stored with each test run. The string is limited to 12 characters and can be changed only with the UserApp530 program.

The "CTU Offset" parameter is added to the calculated CTU result. This allows end users to obtain CTU results that correlate with previously obtained test data or which are more familiar to the user.



Clock Tab

Connected To Model 530 For User Setup

Clock

Preferences

Display

Temperature

System

ID Settings

Printer Setup

Statistics

Enter Date/Time

February

2010

Sun

Mon

Tue

Wed

Thu

Fri

Sat

31

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

1

2

3

4

5

6

7

8

9

10

11

12

13

Hrs: 9

Mins: 55

Time Source

Use PC Clock

Enter Date/Time

Set Time

Unit Clock: 02/23/10 09:56am

PC Clock: 02/23/10 09:56am

Clock Status Messages:

Clock Error 0 minutes

Date Format

mm/dd/yy

dd/mm/yy

Time Format

12 hr

24 hr

Load Default

Save Setup

Print Setup

Close

COM3: 200 100 1.16 1.11 0 0x00000000 1.0.5

The Clock tab is used to set the Model 530 clock as well as date and time formats.

The Model 530 clock can be set using manual date and time entries or using the PC clock value.

Display Tab

Connected To Model 530 For User Setup

Clock

Preferences

Display

Temperature

System

ID Settings

Printer Setup

Statistics

Result Display Setup

Result String Format

CTU - Slope 2

Slope 2 - Temp 1 - Temp 2

Test Run Data Display Format

List

Graph

Display Inflection Points Text

Display Colors

Text: Yellow

Background: Blue

Graph: Green

No Infl Hilite: Red

Load Default

Save Setup

Print Setup

Close

COM3: 200 100 1.16 1.11 0 0x00000000 1.0.5

This tab is used to set data display formats and display colors.

The "No Infl Hilite" color is used when a test result is No Infection. The "No Infection" string will appear on the display in the color specified.

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Temperature Tab

Connected To Model 530 For User Setup

Clock

Preferences

Display

Temperature

System

ID Settings

Printer Setup

Statistics

Cooler

Temp: 48.01°F

Ref: 48.00°F

Cal: 48.00°F

Status: On

Power: 2.5 Watts

Resistance: 3.5 Ohms

Thermistor Cal

10°C value: 4483.20

40°C value: 1200.79

Heater

Temp: 78.00°F

Ref: 77.99°F

Cal: 77.99°F

Status: On

Offsets

Cooler: -0.91°F

Heater: 1.17°F

Units

°C

°F

Load Default

Save Setup

Print Setup

Close

COM3: 200 100 1.16 1.11 0 0x00000000 1.0.5

This tab is used to monitor the heater and cooler assemblies of the Model 530 and to select the temperature unit of measurement.

If the "Programmable Cooler" Option is purchased with a Model 530 then the "Cooler Ref" command button for setting the Cooler Reference is enabled, otherwise it is grayed-out.

TRICOR expects these readings to be valuable when helping to troubleshoot customer problems, you may be asked to check these numbers.

ID Settings Tab

Connected To Model 530 For User Setup

Clock

Preferences

Display

Temperature

System

ID Settings

Printer Setup

Statistics

ID Enables

Product ID: Auto

Operator ID: Off

Line ID: Off

Plant ID: Off

ID Presets

Product ID: 530

Operator ID: 99999

Line ID: 99999

Plant ID: 99999

Last Test ID

220

Load Default

Save Setup

Print Setup

Close

COM3: 200 100 1.16 1.11 0 0x00000000 1.0.5

ID Enable settings:

Off = ID not used (will be displayed as "-----" on the Model 530)

On = operator action required prior to a test run (must accept current value or enter a new value)

Auto = automatically uses the preset ID value for a test run

ID Presets valid range is 1 to 99999.

The unit attaches a sequential Test ID to each test run. This is auto-incremented after each test run and is not user accessible. The "Last Test ID" box shows the current value of this parameter.

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Printer Setup Tab

Connected To Model 530 For User Setup

Clock

Preferences

Display

Temperature

System

ID Settings

Printer Setup

Statistics

Internal Printer Format

Off

Short

Short w/Graph

Long

Long w/Graph

External Printer

Auto Print Result at end of run

Load Default

Save Setup

Print Setup

Close

COM3: 200 100 1.16 1.11 0 0x00000000 1.0.5

If the "External Printer" Option is purchased with a Model 530, the External Printer - Auto Print Result selection is enabled, otherwise it is grayed-out. Check this parameter to externally print the test run results at the end of a test run. External printing begins when the sample lid is opened.

Statistics Tab

Connected To Model 530 For User Setup

Clock

Preferences

Display

Temperature

System

ID Settings

Printer Setup

Statistics

Statistical Graph

Auto Display at end of run

Sigma tolerance settings for Statistical graph

CTU Limits

Low: 3.0

High: 7.0

Slope Limits

Low: -1.00

High: 1.00

Load Default

Save Setup

Print Setup

Close

COM3: 200 100 1.17 1.11 0 0x00000000 1.0.7

The Limits parameter is used on the Model 530 statistical graph display to highlight a user specified range for acceptable results.

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