

About TM100 - 18 September 2003 Version 1.0
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This program TM100 communicates with the Labfacility Tempmaster 100 high precision portable thermometer using ASCII protocol and serves as a real time monitor, control and corrections tool for the Tempmaster 100.

INSTALLATION

Copy all the files from the distribution medium to the same directory/folder on the computer and run TM100.exe from there.

Files:

README.PDF - this file
TM100.EXE - main program
PCOMM.DLL - data link library for the serial port
Standard.cor - Standard correction table

THE PROGRAM TM100

The TM100 will detect the presence of a Tempmaster 100 automatically if connected, and display the Tempmaster 100 corrections setting.

The user interface consists of a window DISPLAY and COMMAND menu.

DISPLAY

The display shows both Channel A and Channel B corrections tables, controls for Units, Channel, Logging and Corrections settings.

Corrections tables

The corrections tables show the current values of Ohms/Deg.C relationships for channel A and channel B separately.

the two Tables are operated separated through sets of Read, Send and Clear buttons. This allows the current values to be read from the Tempmaster 100 and send to the Tempmaster 100, or clear in the display window.

The following buttons are implemented on the Display window.

Units - to cycle the Units between C, F, K and Ohms. First click on the Units button will bring up the Units display and set the Units to C.

Measure - to get a measurement from the current channel.

Channel - to cycle the channel between A, B and A-B. First click on the Channel button will bring up the Channel display and set the Channel to A.

Start/Stop - to start or stop logging to a file. The Log Rate is settable between 5s to 300s. The total number of points is settable between 1 to 65000. While logging, all other buttons are disabled.

Query - to query the Corrections setting; Not Enable, none, A, B, or A & B.

Correction - to cycle the corrections setting between A, B, and A & B.

Enable - to enable the corrections. This is only functional when the SPAN ^ key on the Tempmaster 100 is held down.

Disable - to disable the corrections. This is only functional when the SPAN ^ key on the Tempmaster 100 is held down.

Initialise - to erase the corrections table of both channel A and B.

COMMANDS

The TM100 supports the following commands on the command menu:

File

Load - The corrections tables from the disk.

Save - The corrections tables to the disk.

Exit - the program.

Options

Port1 to Port2 - The TM100 supports serial port 1 to 4. The port number is set to 2 by default.

Local - in the unlikely event where the communication between the TM100 and Tempmaster 100 is interrupted, it is possible to leave the Tempmaster in remote control. This command can be used to put the Tempmaster 100 back to local mode. If this fails, switch the Tempmaster 100 Off and On should work.

The TM100 uses the following files:

README.PDF - this file
TM100.EXE - main program
PCOMM.DLL - data link library for the serial port
*.cor - corrections files as saved by the TM100
*.csv - log files as saved by the TM100

This ReadMe.pdf file can be accessed under Help.