

# 14-4100



The Burnout Checker™ is a fast, visual way to check your burnout program by measuring and storing over 32,000 temperature readings via a thermocouple attached to the base of the unit. You can easily set up the recording rate, start-time, mode and download the stored data by plugging the module straight into your PC's USB port and running the purpose designed software under Windows 2000, XP or Vista. Burnout cycle data can then be graphed, printed and exported to other applications. The module is supplied complete with a long-life lithium battery, which will last for approximately 6 months.

- -328 to +2372° F Measurement Range
- USB Interface for Set-up and Data Download
- 2 User-Programmable Alarm Thresholds
- Bright Red and Green LED Indication
- Replaceable Internal Lithium Battery
- Supplied with thermocouple rated to 2350° F (1287° C)



## WINDOWS CONTROL SOFTWARE

Easy to install and use, the control software runs under Windows 2000, XP (Home and Professional Editions) and Vista (32-bit). It allows the user to set up and download any 14-4100 Burnout Checker™.

## SOFTWARE SET-UPS

- Program Name
- °F, °C
- Recording Rate (1s, 10s, 1m, 5m, 30m, 1hr, 6hr, 12hr)
- High and Low Alarms
- Start Date and Start Time
- Range of modes available

## ORDERING INFORMATION

	Stock Number
Burnout Checker™ (Checker Module, Software on CD, Battery, Thermocouple)	14-4100
Replacement Battery	BATTERY-3.6V-LI

## SPECIFICATIONS

Specification	Min.	Typ.	Max.	Unit
Module Measurement range	-200 (-328)		+1300 (2372)	°F (°C)
Operating temperature range *	14 (-10)		+104 (40)	°F (°C)
Resolution (internal and displayed)		1 (0.5)		°F (°C)
Accuracy		+/- 2°F (1° C)**		°F (°C)
Reading cycle rate	every 1s		every 12hr	-
1/2AA 3.6V Lithium Battery Life ***		6		Month

\* The Burnout Checker™ should not be subjected to temperatures outside the Operating temperature range.

\*\* The Burnout Checker™ is designed to be used whilst disconnected from USB port.

\*\*\* @ 25°C and 1m reading cycle rate



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**LED FLASHING MODES**

- The 14-4100 features two LEDs, that indicate the reading, battery and alarm status:
- The first LED flashes red (R) to indicate that the module is in an alarm condition. It will flash when the recorded temperature has exceeded a low or high alarm level.
  - The second LED flashes green (G) to indicate that the 14-4100 is not in an alarm condition.

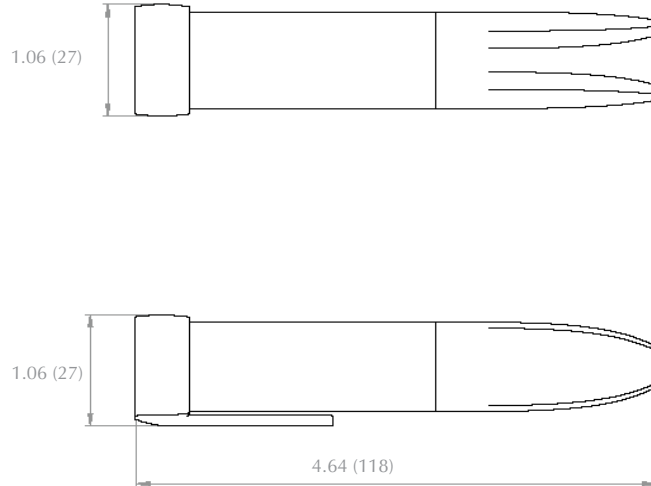
By default latching is enabled, so the red LED will continue to flash even after the temperature has returned to normal. The red LED will effectively have latched into its alarm condition. This feature ensures that the user is notified that an alarm level has been exceeded, without the need to download the information from the module.

Latching can be turned off via the control software. The red LED will then only flash whilst the module is in an alarm condition. When the temperature returns to normal, the green LED will flash.

Additional LED modes are explained below:

- | R   | G   |   |
|---|---|---|
|    |    | <b><u>Green LED flashes once every 30 seconds</u></b><br>-The module is not currently recording, but is primed to start at a later date and   |
|    |    | <b><u>Green LED flashes once every 10 seconds</u></b><br>-The most recent temperature is between the low alarm and high alarm levels.   |
|   |   | <b><u>Red LED flashes once every 10 seconds</u></b><br>-The most recent temperature is equal to or lower than the low alarm level.<br>NB: If latching is enabled, then the alarm condition may have been triggered by a previous event.                           |
|  |  | <b><u>Red LED flashes twice every 10 seconds</u></b><br>-The most recent temperature is equal to or higher than the high alarm level.<br>NB: If latching is enabled, then the alarm condition may have been triggered by a previous event ago)                    |
|  |  | <b><u>Green LED flashes once every 20 seconds</u></b><br>-The battery is low and the most recent temperature is between the low alarm and high alarm levels.  |
|  |  | <b><u>Red LED flashes once every 20 seconds</u></b><br>-The battery is low and the most recent temperature is equal to or lower than the low alarm level.<br>NB: If latching is enabled, then the alarm condition may have been triggered by a previous event.    |
|  |  | <b><u>Red LED flashes twice every 20 seconds</u></b><br>-The battery is low and the most recent temperature is equal to or higher than the high alarm level.<br>NB: If latching is enabled, then the alarm condition may have been triggered by a previous event. |
|  |  | <b><u>Green LED flashes twice every 20 seconds</u></b><br>-The module is full and the most recent temperature is between the low alarm and high alarm levels.   |
|  |  | <b><u>Red and Green LEDs flash alternately every 20 seconds</u></b><br>-The module is full and a stored value is equal to or exceeds the low or high alarm level.<br>NB: This state is only possible if latching is enabled.                                      |
|  |  | <b><u>No LEDs flash</u></b><br>The module is not in use (turned off).<br>Or<br>-If the module was running, it has now shut down due to a dead battery (voltage has dropped below 2.8V).   |

**DIMENSIONS** All dimensions in inches (mm)



**BATTERY REPLACEMENT**

We recommend that you replace the battery every 6 months.

The 14-4100 does not lose its stored readings when the battery dies or when the battery is replaced; the module will however be stopped and cannot be re-started until the battery has been replaced and the recorded information has been downloaded to the PC.

When replacing the battery, make sure the module is not connected to the PC. Use only the correct type of battery for the module.

Note:

Leaving the module plugged into the USB port for longer than necessary will drain the battery. Always disconnect and store the module in a clean, safe, dry place to prevent damage to the unit.



**WARNING: Handle lithium batteries carefully, observe warnings on battery casing. Dispose of in accordance with local regulations.**



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