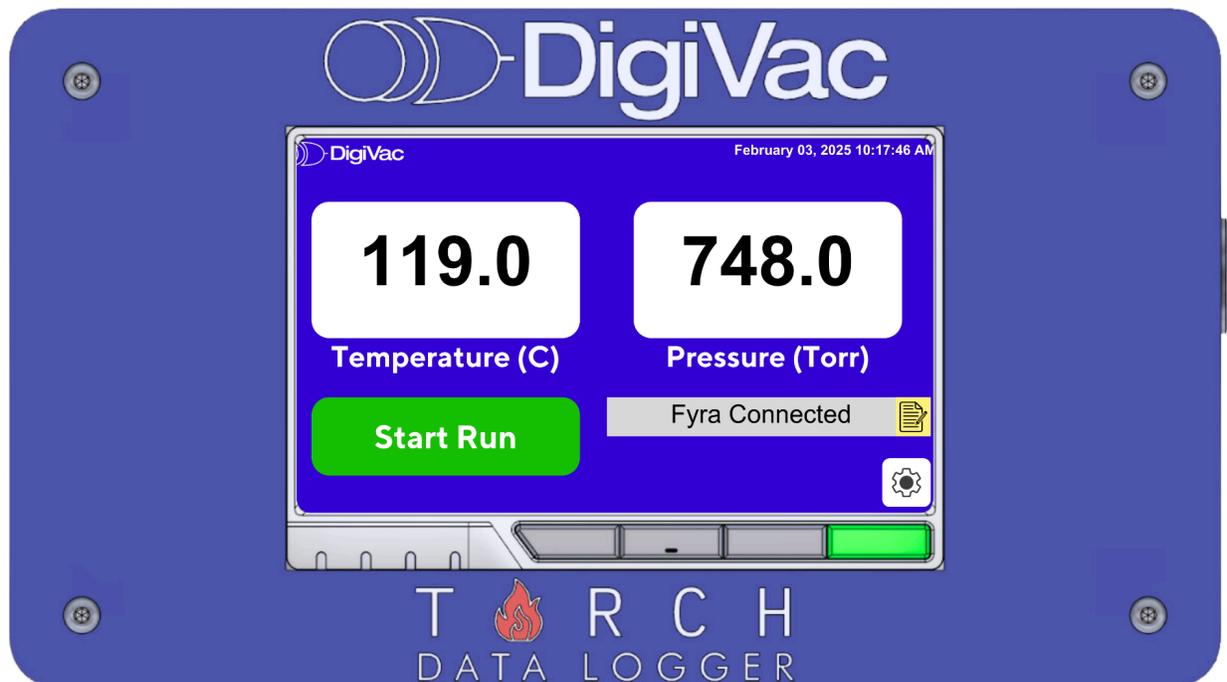


Torch Data Logger



Operation Manual

YOU MUST READ THIS MANUAL BEFORE USE

February 2025

This document will demonstrate how to set up, record, and export data from the Fyra using the Torch Data Logger.

Overview

The Torch Data Logger is a straightforward data logger that can log both temperature and vacuum/pressure information. With a 5" touchscreen display, the Torch Data Logger is also able to print the logged data directly using a connected printer. The Torch will graph the data and print it after each run. Otherwise, all data is securely saved on a USB flash drive or internally (in the absence of flash drive) in a locked container to prevent any tampering. There are additional safety features to prevent power outages or tripped power cords from interfering with the recorded tests as well.

Specifications

Power Supply: AC Power Adapter

Display: 5" LCD Display, with 5-point capacitive touch

Dimensions: 9.8" x 5.5" x 3"

USB: 2 x USB (1 for printer, the other for thumb drive)

Storage: Internal Storage of 20G + USB Flash Drive Capacity; up to 1000 years internally, additional 100 years with 2G external thumb drive

Mount: Magnetic to front of vacuum oven or Benchtop

Setting Up the Torch Data Logger

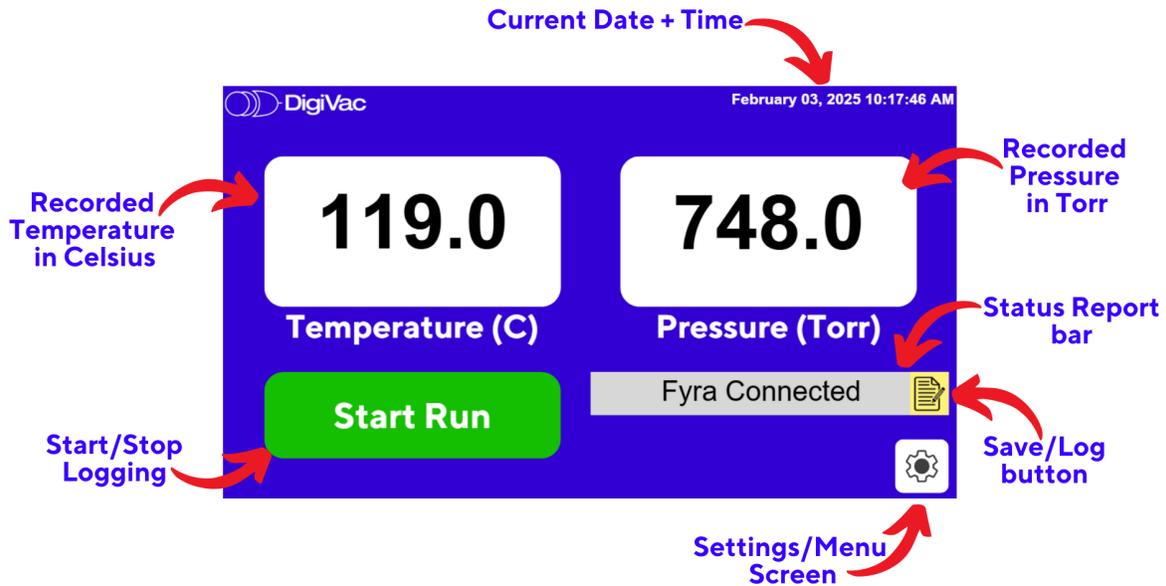
The Torch Data Logger should be placed in a clean, dry environment for best results. The Torch itself, USB, and Hub will reside in a locked container that can be magnetically attached to the vacuum oven. Only the touch screen and printer cable will be accessible without a key. Cables should be identified by tags or markings specific to environment/needs.

Installation

Connect the Torch Data Logger to a Fyra that has been attached to a vacuum oven using the micro-USB wire. The USB end of the cable should get inserted into one of the USB ports. Power both the Fyra and Torch on if not already on.

The Torch Data Logger will discover the Fyra automatically. Powering the Torch on will bring you to the Home screen. Below is a figure detailing the different parts of the Home screen.

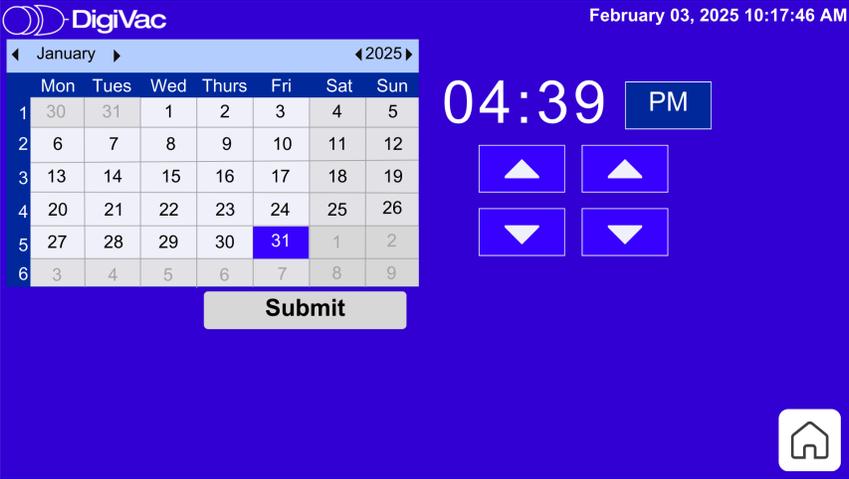
Home Screen Breakdown



The Status Report bar will show if the Fyra is connected.

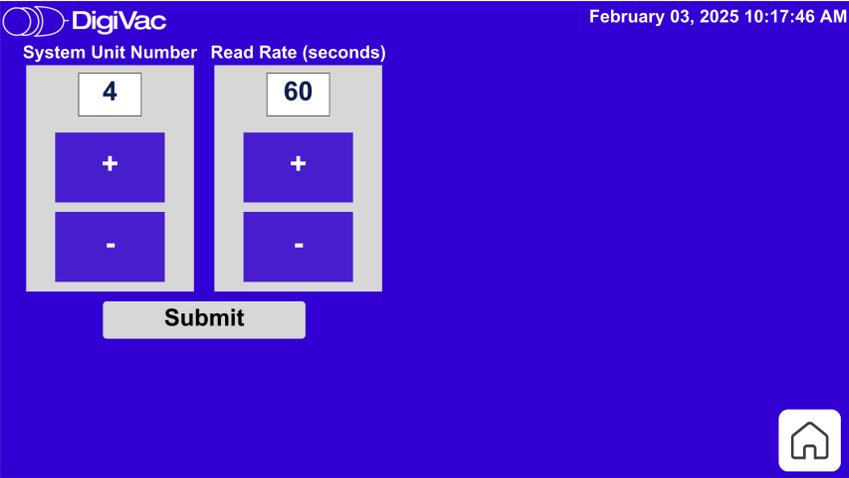
Adjusting the System Time

The System Time can be adjusted by tapping on the Setting gear icon in the bottom right hand corner. This will open up the Settings/Menu screen. Tap on "Set System Time." This will open up the screen below, where the date and time can be adjusted.



Adjusting the Read Settings

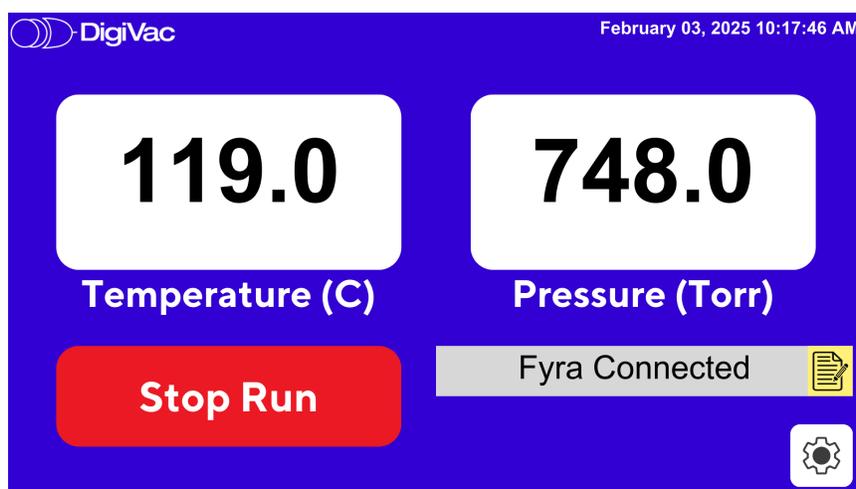
The Read Settings can be adjusted by tapping on the Setting gear icon in the bottom right hand corner. This will open up the Settings/Menu screen. Tap on "Set Read Settings." This will open up the screen below, where the *System Unit Number* and *Read Rate (seconds)* can be adjusted.



How to Use the Torch Data Logger

Data Logging: Start and End Log

To start recording/logging a run, simply tap on the soft touch **Start** button on the Home screen. This will initiate the data logging where both vacuum/pressure and temperature will be recorded at user set intervals. It will continue to keep logging until the system is stopped (the Torch will auto stop at 30 hours).

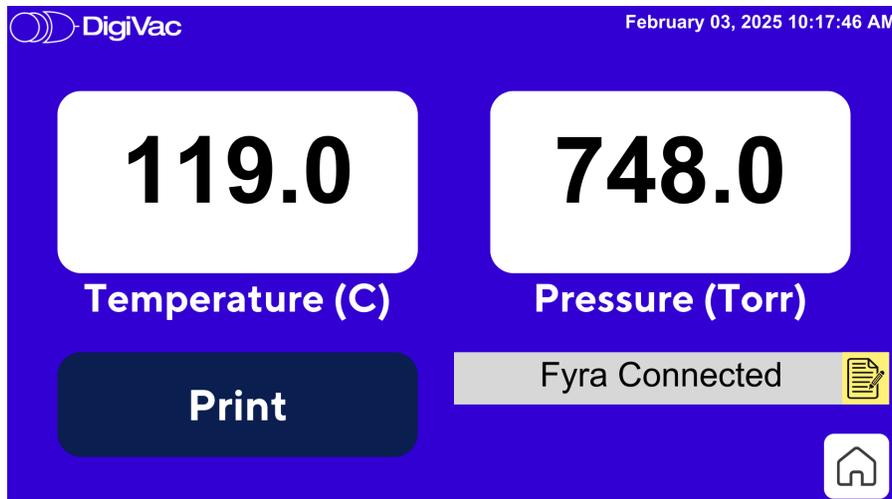


To stop recording/logging a run, tap on the **Stop Run** soft touch button. This will end the data logging process. The Torch will beep to alert the user that the logging has ended.

Exporting the Data

If the Torch Data Logger is connected to a printer, there will be the option to print the logged data. Upon stopping the logging, a screen will appear along with a Print prompt. If the printer is connected, it will automatically print and the Status Report bar will read "Printing Report."

Otherwise, the screen will appear with the Status Report bar reading "Fyra Connected."



Tapping the yellow button with the paper and pen icon to the right of the Status Report bar will transfer the log onto the USB flash drive inside of the locked container housing the Torch. The Status Report bar will then read "System Log Transfer."

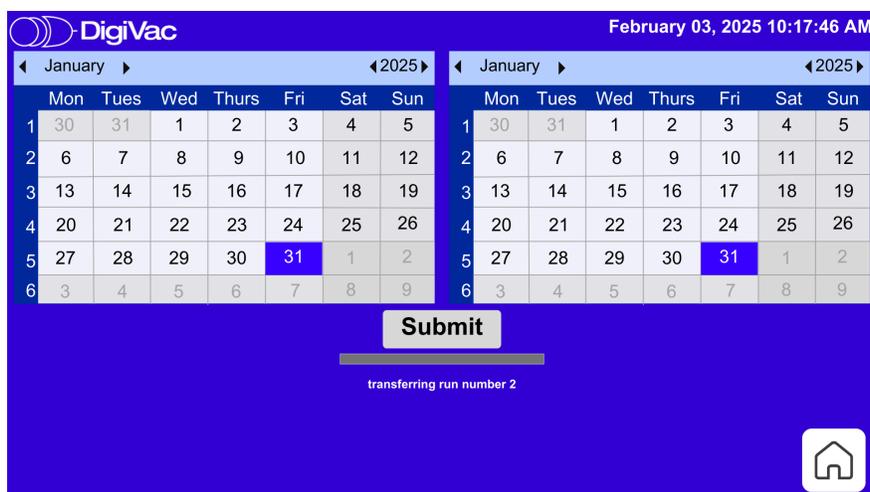
In the case that there is no USB flash drive, the log will be stored internally on the Torch. The Torch can hold the logs for over ten (10+) years.

To begin a new log, simply tap on the icon in the bottom right hand corner with the House icon. This will take you back to the Home screen.

How to Access Previous Logs

To access logs made previously, simply tap on the Settings gear in the bottom right hand corner on the Home screen. This will pull up a menu with three options. Tap on the option that reads "Retrieve Data from Unit."

This will pull up a screen with two calendars on it. The user can select a Start Date and End Date to access a time frame of recorded logs by adjusting the dates on the two calendars.



Selecting the same date on both calendars will pull the data logging records from just that day.

To export to a USB flash drive, first ensure that there is one connected to the Torch inside of the locked container. Then tap the Submit button beneath the calendars to transfer the data. The bar beneath the Submit button will reflect the status of the transfer.

Exported Data: Raw & Graphed Data

The exported data logs will be saved as .csv files, which are accessible via Microsoft Excel. The files will be named after the Start Dates of the logged run. A graph will also be generated based on the logged data.

Printing the report will also provide the data in a graph and also the raw data itself in a neat table. The printed report is also formatted so that it can be easily consolidated to hand off to whoever needs to sign off on it.

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