Automation Test  
User Manual

**Document History**

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| --- | --- | --- | --- |
| Date | Version | Author | Change |
| 18/06/2020 | 0 | Nam | First release |

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# Introduction

This document aims to describe how to install PID Test Tool and it’s all features of the PID Test Tool. This tool is used by the developer to test the serial command interface to PID device and its peripheral functionalities in integrated mode. In this version, some functions are not completed, because of firmware of PID is being developed.

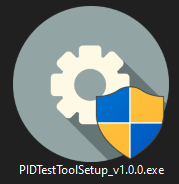
# Terminology, Abbreviations and Notations

|  |  |
| --- | --- |
| PTT | PID Test Tool |

**Table 1. Terminology, abbreviations, notations**

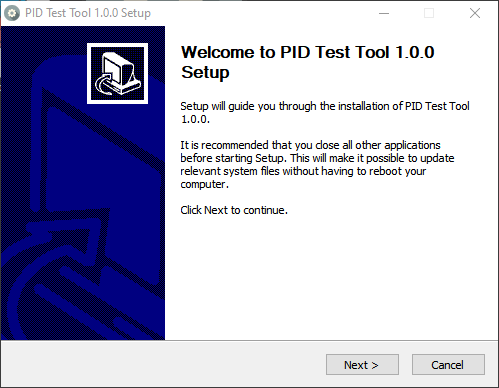
# Installation

Click icon “PIDTestToolSetup.exe” to install application.



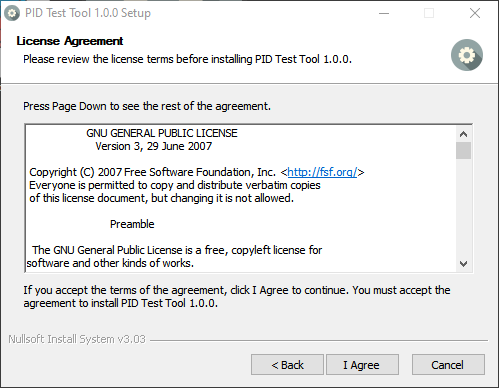
**Figure 1. Application Overview**

Click **Next** on Welcome Page Setup.



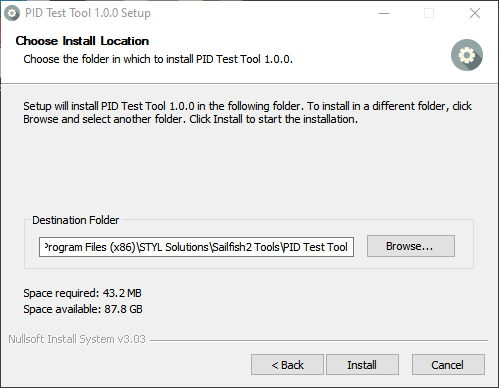
**Figure 2. Welcome Page Setup**

Choose **I Agree** to agree the License Agreement.



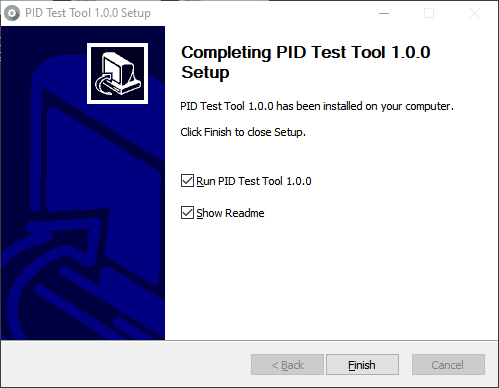
**Figure 3. License Agreement**

Click **Install** to install application and let the “Destination Folder” default.



**Figure 4. Choose Location**

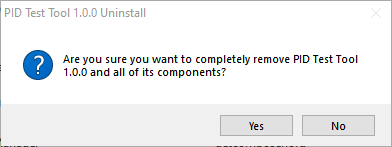
When finish installing, choose **Finish** to complete the installation process.



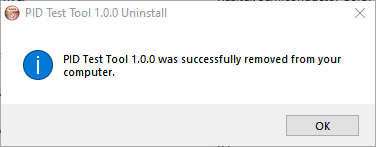
**Figure 5. Finish Setup**

# Uninstallation

Uninstall “PID Test Tool” by go to “Programs and Features” in Control Panel.



**Figure 6. Uninstall program in Control Panel**



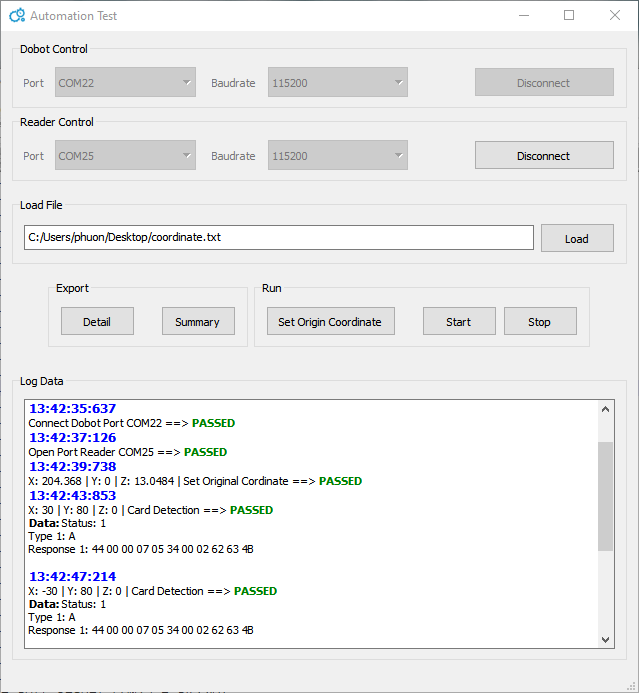
**Figure 7. Finish uninstalling program**

# Software overview

Click “PID Test Tool” to open application.



**Figure 8. Application Icon**



**Figure 9. Application Overview**

## Main menu

|  |  |  |
| --- | --- | --- |
| Communication | Open Port | Open serial COM port to communicate with device, the baud rate is set default 115200. |
| Close Port | Close serial COM port. |
| Exit | Close program. |
| Sensor | Read RealTime | Read data of sensor in real time. |
| Help | About | Inform the application including version, build number. |

**Table 2. Main Menu Contents**

## Function Test

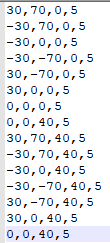
|  |  |  |
| --- | --- | --- |
| MODULE | FUNCTION | DESCRIPTION |
| PWM | PWM Set Duty Cycle | Set duty cycle for PWM |
| PWM Get Duty Cycle | Get duty cycle for PWM |
| PWM Self-Test | Test PWM |
| PWM Set Frequency | Set frequency for PWM |
| PWM Get Frequency | Get frequency for PWM |
| SENSOR | Sensor Read Value | Read value of sensor proximity |
| Sensor Calibration | Calibrate the sensor |
| Sensor Self-Test | Test sensor |
| BRIGHTNESS  CONTROL | Brightness Control | Turn on/off the PID backlight brightness screen |

**Table 3. Describe Function**

# Usage

Demo clip: <https://drive.google.com/file/d/1jkYeBWvg2Ox6P9e1G2SVtYrR92DSML4Y/view>

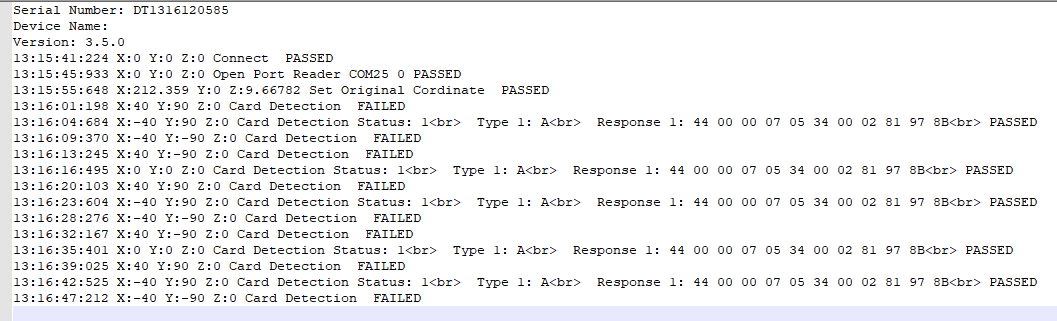
# Input File Description



**Figure 9. Application Overview**

Format: x,y,z,loop

# Export File Description



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