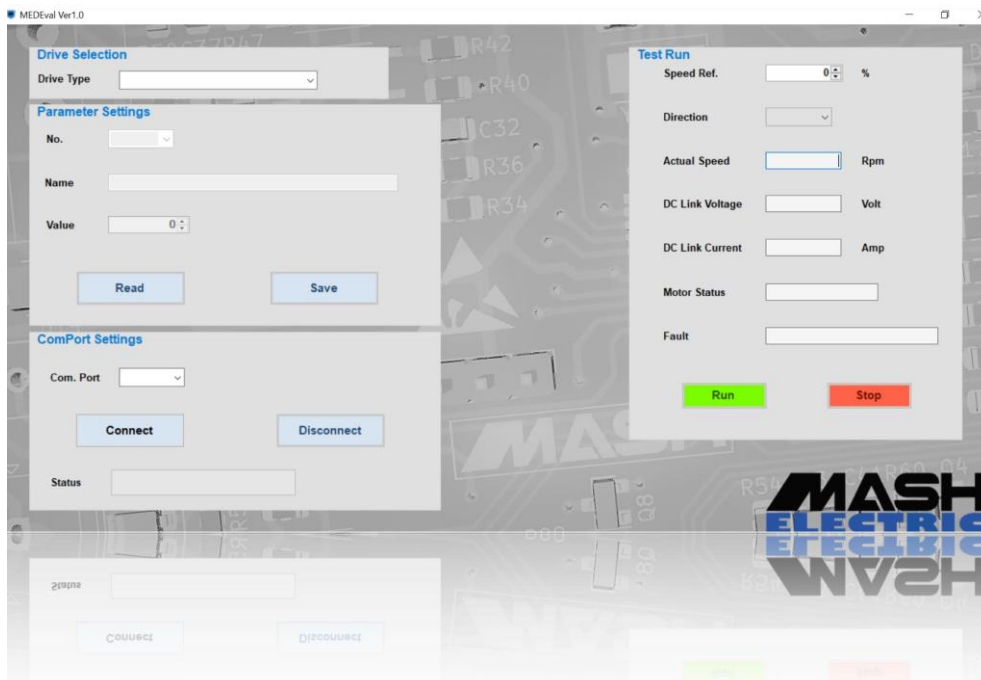




QUICK GUIDE FOR MEDEval SOFTWARE



VERSION 1.0
DEC 2020

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1. INTRODUCTION

MEDEval is a free software for Easy tuning of mash electric controllers and motors. MEDEval software is used to set the control parameters of brushless dc drives, which includes LVT, LVS, HVT, HVS series drives.

It is recommended to use the latest version of the software.

2. INSTALLATION

- > Download the zip file from mash electric website, and extract it in the destination folder.
- > After successful extraction, run the MEDEval windows installer to install the software.
- > After installation, you can start the MEDEval software by the link on your desktop.

3. CONNECTION AND SETUP

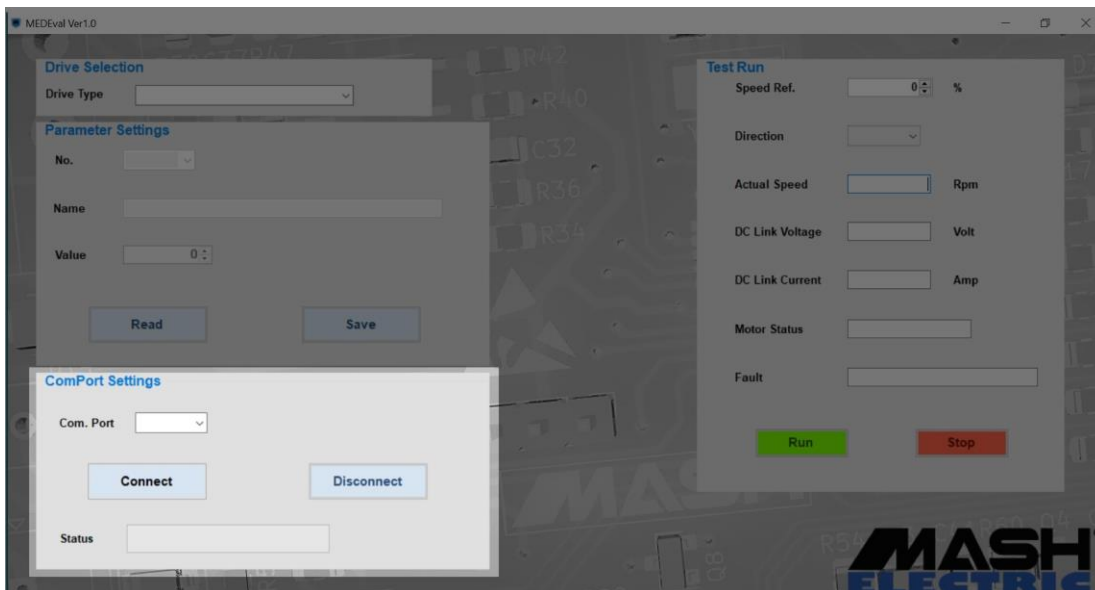
Connecting to a controller:

Firstly, connect the power supply of the controller.

Connecting over RS485:

To make the connection of the controller to your pc via USB, an USB to RS485 converter is required.

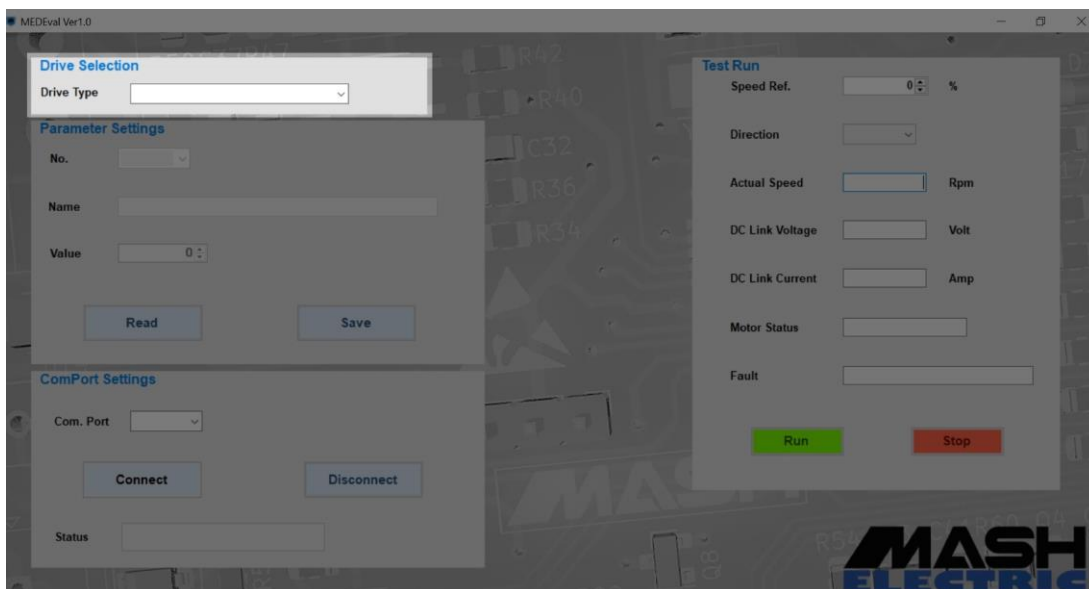
- > Connect the controller to the computer using the USB-RS485 converter
- > check the available COM ports in windows device manager.



> After identifying the correct COM port, select Com. Port tab and choose the correct COM port from the list and click Connect.

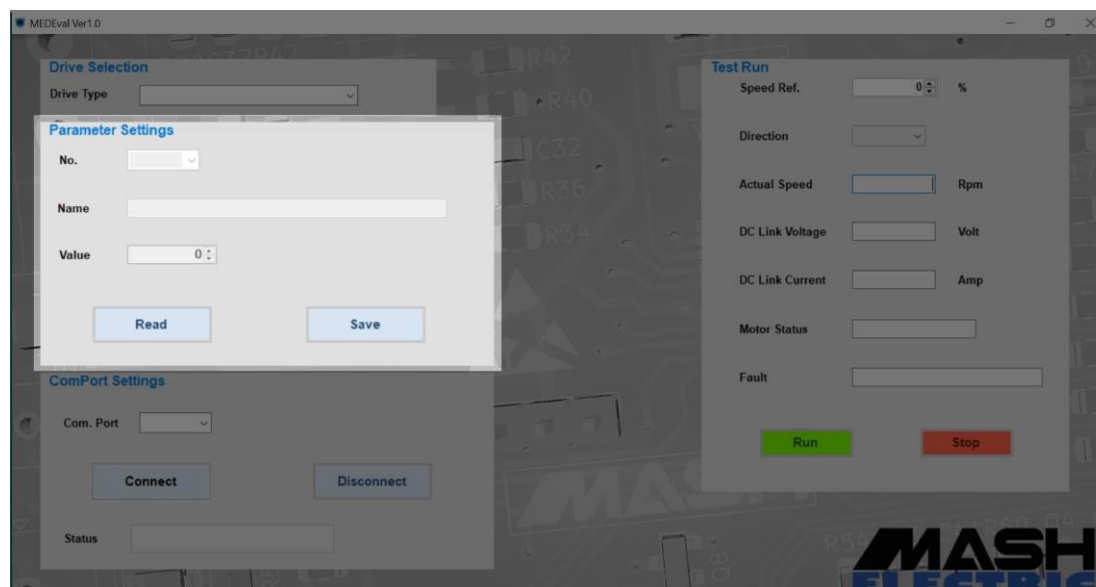
> If proper COM port will be detected, the status bar will turn green and the controller will be connected to the computer.

Drive selection:



> After connecting to the controller, select the appropriate drive series as mentioned on the drive

Parameter Settings:



No. : To select specific parameter number.

Name : Shows the parameter name.

Value : Shows and sets the value of the selected parameter.

> Select the parameter no. which has to be set, and click read button. By clicking the read button, the value of that parameter stored in the drive will be displayed in Value tab.

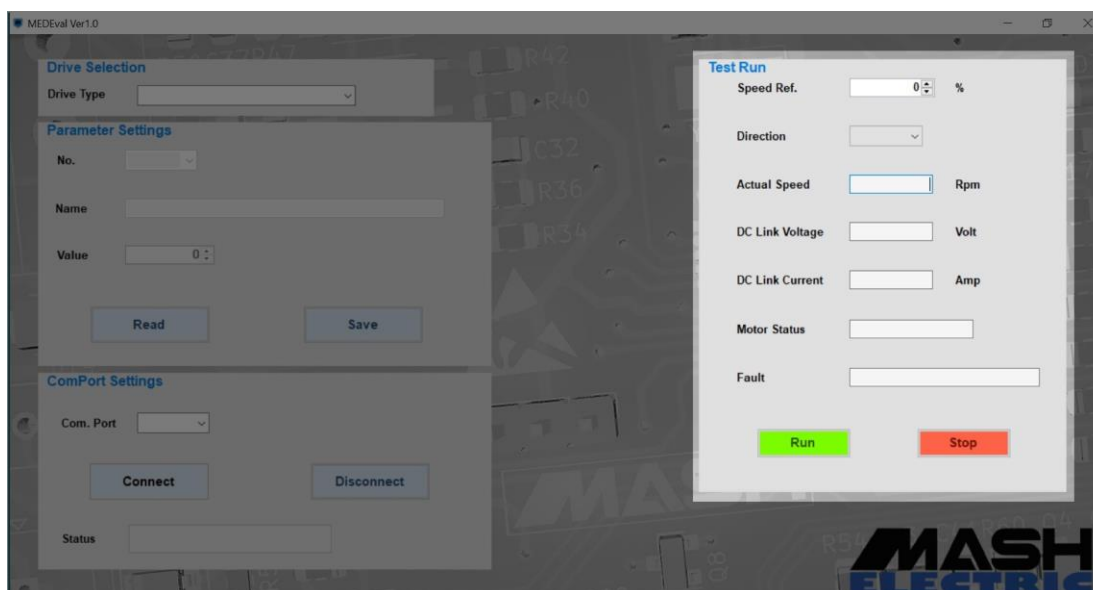
> Set the desired value of that parameter by scrolling on the Value tab and click save button to store that new value in the drive.

(First **read** the parameter value, **change** if required, and then click **save** to store the value)

NOTE

> When connecting the third party motor to the controller, check the motor data and set the parameters accordingly.

> Incorrect parameter values may cause damage to the motor.

Test run:

After setting the parameters, when using the Test run, connect the motor to the controller.

Test run is intended to check proper rotation and working of the motor.

Speed Ref. : To set the speed of the motor.

Direction : To set the rotational direction of the motor.

Actual Speed : Displays the current speed of the motor.

DC Link Voltage : Displays the applied supply voltage to the drive.

DC Link Current : Displays the actual current of the motor.

Motor Status : Displays the run/stop status of the motor.

Fault : Displays any fault condition of the drive.

> To run the motor, First click the run button and then increase the speed ref. The motor will run as per the set speed ref.

> To change the direction of the motor, click stop, then change the direction.

> Motor will stop in case of any fault condition. In such case, reset the controller and follow the procedure again.

NOTE

> In order to close the application, first stop the motor, disconnect the drive and then close.

> It is not necessary to use the test run, only parameters can also be set.