

# Installation Tools

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## Required Tools

1. [Multimeter \(Fluke 179 True RMS Multimeter Recommended\)](#)



2. [Wire/Cable Striper Recommended\)](#)



3. [Cable Jacket Remover \(Jonard Recommended\)](#)



4. Flush Cutter or Lineman's/C



5. Blade/Boxcutter/Scalpe



6. Adhesive Lined, 1/2" Heatshrink Tubing, 3-1 Shrink Ratio



7. Heat gun / Heat source



8. Metric Allen Torque Wrench Hex Key



9. Degreasing Kit + Shop



10. [Locktite Blue 242 Threadlock](#)



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# Tools By Mounting Method

Metric Captive Bolt



Standard Captive Bolt

1. [Metric Bottoming Tap M6x1](#)



[Standard](#)





2. 5.0mm (13/64") Drill Bit  
#3 drill bit (7/32")

3. Tap Handle



4. Power Drill (We Recommend Wired and 1/2")

Note that the amp and torque requirements to cut into the case of a machine differs by case material. Select accordingly.



Mounting Pad  
Motor Fin Mount

Frenolic Block (High Heat)

1. Epoxy Cartridge (50ml LORD® 403/19 Modified Acrylic Adhesive Recommended)

Note that each 50ml cartridges contain enough epoxy to mount:

- ~3 Mounting Pads
- ~2 Frenolic Blocks
- ~2 Motor Fin Mounts



2. Epoxy 4-1 Ratio Plunger (Compatible with Recommended Gun + Cartridge)



- 3.



4. Extra Mixer Nozzles

Note that the extra nozzles are optional but the epoxy will set within 15 minutes of sitting. If you plan to take more than 5 minutes to use the whole cartridge, you should plan on replacing the nozzle.



## Magnetic Mounting Pad

1. No Additional Tools Required. Can be installed using just the required tools.

Use caution when placing the magnet on the machine.  
Read the mounting specific instructions before installing  
to avoid hurting yourself or damaging your sensors.

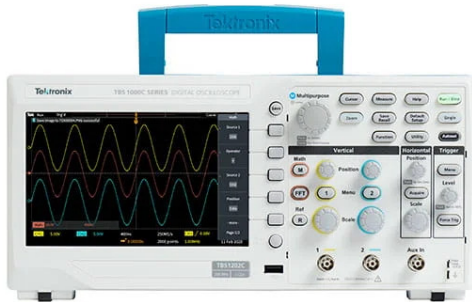
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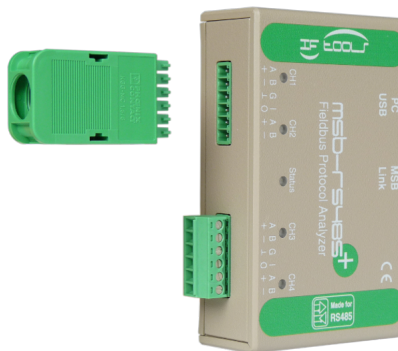
# Bus Communication Verification Tools

Note that this section is specific to customers who want to use **a more robust, but also more labor intensive, method** to verify their RS485 Electrical Characteristics and Modbus Communications.

1. RedPitaya (STEMLab 125-14 Recommended) | Oscilloscope (Tektronix TBS1104C)



2. RS485 Bus Analyzer



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