Current Meter for DC C02 LASER Tube

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VIEW IN BROWSER

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Summary

My RECI-brand C02 LASER tube is designed to run at 28 mA. The manufacturer says to keep it at 26 mA if you would like...

Hobby & Makers > Other Ideas

Tags: current currentmeter laser lasercutter voltmeter

My RECI-brand C02 LASER tube is designed to run at 28 mA. The manufacturer says to keep it at 26 mA if you would like the 10,000 hour life. With my cutter, I could not use 100% power and stay within these limits. In fact, my power has to be set to 77% to be at 26 mA.

Make the enclosure from glued 5mm wood or Acrylic, and install a 30mA meter meter in it. I used this one:

http://www.ebay.com/itm/Plastic-Class-2-5-Accuracy-DC-0-30MA-Milliamp-Ammeter-Meter-Panel-/321062760680?ssPageName=ADME:L:OC:US:3160

Wire the meter in series with the wire that connects to the LASER tube near the emitter. If the needle moves to the left, then reverse the polarity.

You can then adjust your power supply to put out the recommended max current when your software is asking for 100%. For my Z4 tube, that is 28 mA.

Category: Other

Model files

bottom.sldprt

sides.sldprt

back.sldprt

top.sldprt

meterbox.dxf

front.sldprt

Other files

meterbox.ai

Find source .stl files on Thingiverse.com

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