

Re: A little progress made

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 - *Date:* Sat, 24 Jun 2006 01:10:19 GMT
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On Fri, 23 Jun 2006 20:32:48 -0400, Boris Mohar <borism_-void-_@xxxxxxxxxxxxx> wrote:

I was using my Lincoln 175 TIG and rapidly running out of Argon. This was a part of convoluted SS exhaust manifold that I am nearing the completion of. One moment I would be tacking thin bits being careful not to burn through and next moment I would be using some serious current. This made me think of you project and the following issue. My Lincoln has postflow of 15 sec which his hard wired.

Very irritating when the main gage is reading zero and I was tempted to aim the arc at the Argon tank to squeeze out some more gas. You have a programmable controller. You know how much current is flowing and for how long it has been flowing. It would not take to much coding to come up with postflow based on those parameters. Another nicety would be to be able to adjust the flow based on current. Can your microcontroller incorporate a flow controller?

You hit the proverbial nail on the head. Yes, it can incorporate variable postflow and I will. It is not hard to figure out how to do postflow. (same exponential moving average of current)

I wanted to put it in my welder ASAP, now I realized that this haste is harmful. I want it to spend time on my bench, I want to wire PWM based outputs to control welder's voltage and current, I want to program variable postflow, pulsed TIG, etc etc. It is better if I spend one extra week programming on the bench, it is easier than standing in front of the welder with my laptop in my garage.

You can see my source code at

<http://igor.chudov.com/projects/Welding/11-New-Rectifier/source.txt>

it changes all the time. This is the CVS copy of my source code.

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