

1000 K.L.O. Road
Kelowna, British Columbia
V1Y 4X8
April 11, 2002-06-05

Dallas Koop
Shop Foreman
Kalamalka Industries
1125 Street
Kelowna, British Columbia

Dear Mr. Koop:

Here is the report that we have completed as you requested to find a way to accurately measure the wire feed rate of the welders at Kalamalka Industries. We do hope that our Mech 2002 instrument fulfils what you are looking for and will assist you.

The design of the meter considered the following requirements:

- The meter must be accurate to within 4% at a rate of 250 inches per minute.
- The meter must be small and portable.
- The meter must withstand plant atmosphere including resisting dust and other particles.
- The meter must be quick and easy to use.

We are excited to say that all of these requirements have been met. The meter was tested in multiple situations. The first source used to test was a welder from OUC. We found that the feed rate measured by our meter was better than 3.5% accurate at feed rates between 50 and 750 rpm. It was then tested on the auto feed gear of a mill, which as you know, is a very good testing source, because it runs at a very accurate constant speed. In this test, the meter also showed a constant feed rate. Knowing that the meter is accurate, we are confident that it will satisfy its purpose.

Thank you for this opportunity, because it was a perfect subject for our English class. The chance to solve a real-life problem, no matter its magnitude, has proven to be a great learning experience. We would also like to thank Rick Gostlin who helped with the electronic side of the meter. If you have any questions or need help using the meter, please contact any one of us.

Sincerely,

Jordan Clarke
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