

**Absolute Process Instruments, Inc.**

Manufacturer of Quality Signal Conditioners Transmitters & Isolators

## Application Notes

- General Info
- Temperature
- Pressure
- Flow
- Speed
- Weighing
- Process

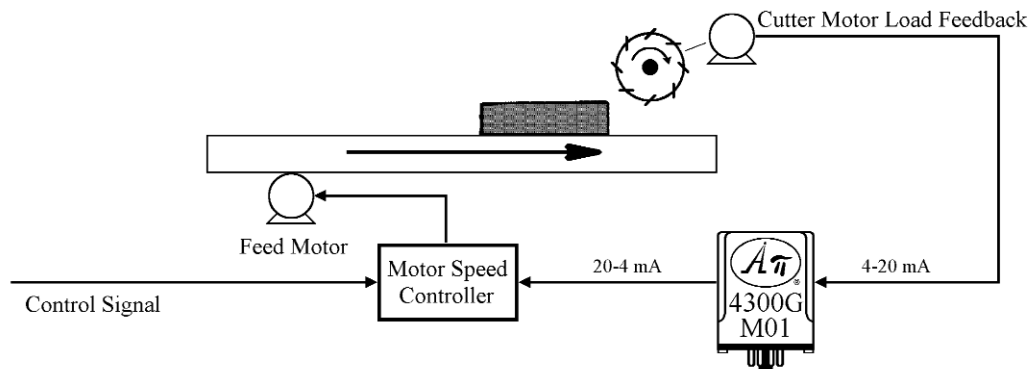
### Motor Load Controller

#### PROBLEM

A DC motor driving a cutter may become overheated and damaged if stock is fed into the cutter too rapidly, but production requirements dictate maximum machine output.

#### SOLUTION

A 4-20 mA DC signal proportional to the cutter motor load is available to provide feedback for the feed motor controller. An API 4300 G M01 Isolated DC to DC Transmitter module reverses the feedback signal so that increasing load on the cutter will decrease the speed of the feed motor.



Conversely, decreasing load on the cutter increases the speed of the feed motor. The feed rate is controlled to maintain the optimum load on the cutter at all times. In addition, the 2000 VRMS isolation protects against unwanted ground loops and electrical noise commonly found in industrial environments.

**FREE APPLICATION ASSISTANCE**

Call  Customer Service

**800-942-0315**

