CATEGORY:
- ❑ Temperature
- ❑ Pressure
- ❑ Flow
- ■ Speed
- ❑ Weighing
- ❑ Other

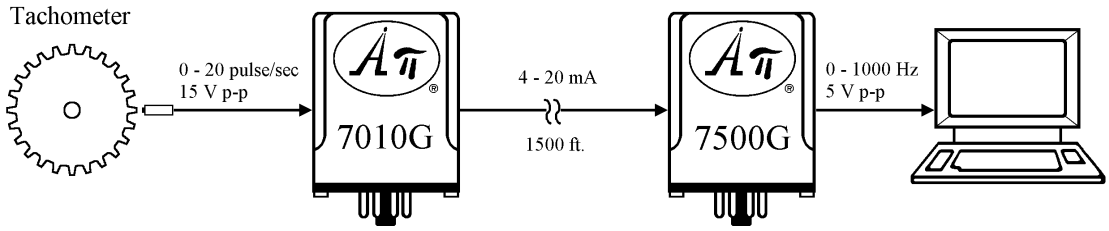
MONITORING MIXER SPEED AT REMOTE COMPUTER

PROBLEM:

The speed of a mixing machine must be monitored by a computer located 1500 feet away, across an electrically noisy area. The tachometer on the mixer produces 24 pulses per revolution at 15 V peak-to-peak, and the mixer runs at up to 50 RPM. The computer input accepts a frequency of 0-1000 Hz at 5 V peak-to-peak.

SOLUTION:

Api signal conditioning is applied at the tachometer output and at the computer input to provide noise immunity and signal compatibility.



The tachometer output (24 pulse/rev x 50 rev/min x 1 min/60 sec = 20 pulse/sec) is converted to a 4-20 mADC signal by the Api Model 7010G Isolated Frequency to DC Transmitter module. At the computer, the 4-20 mADC signal is converted by the Api Model 7500G Field Selectable Isolated DC to Frequency Transmitter module to a frequency of 0-1000 Hz.

Did You Know ... ?

Api isolated transmitters have 2000 volt input, output and power isolation as well as a LIFETIME WARRANTY.