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

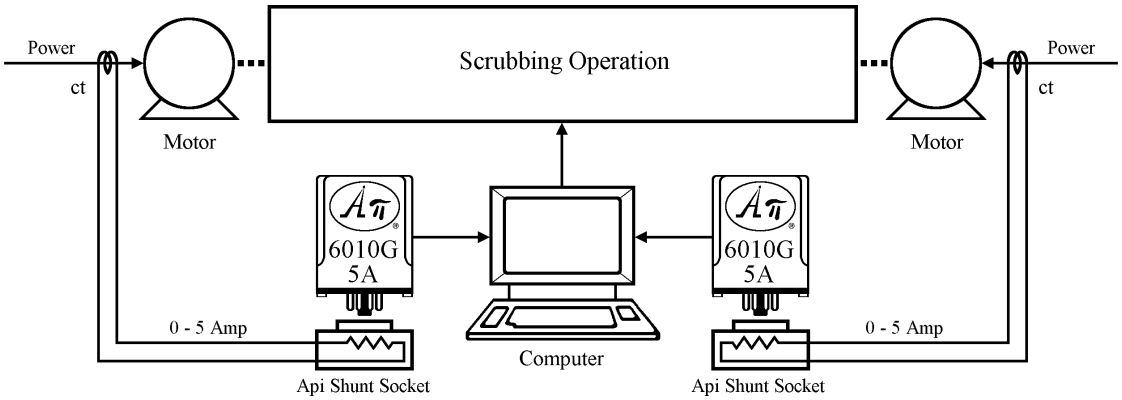
MONITORING THE SPEED OF SCRUBBERS

PROBLEM:

Material is fed to a pair of scrubbers rotating at 3600 RPM. If the speed of the scrubbers decreases due to overloading, the material is not adequately cleaned.

SOLUTION:

As loading on a motor increases its speed will decrease and its electrical current draw will increase. The amount of current drawn by the motor can be monitored and used as an indication of motor speed.



Current transformers are installed on the electrical lines supplying the motors. Each current transformer is connected to an Api Model 6010G5A isolated AC to DC Transmitter, which consists of a socket with a built-in shunt, and a plug-in module. This arrangement prevents damage to the current transformer if the plug-in module is removed from the socket without powering down the scrubbers. The DC output from each Api 6010G5A is connected to a computer and can be used for monitoring scrubber speed or for controlling the feed rate of material to the scrubbers for most efficient operation. The 2000 V_{RMS} optical isolation protects against unwanted ground loops and electrical interference.

Did You Know ... ?

Single (API 1600 G 5A) and dual (API 1620 G 5A) alarm modules are also available.