

A210 Power Monitor - Predictive Maintenance of Electric Motors

A machine driven by an electric motor consumes a certain amount of active power (Watts). For example, a newly rebuilt 3-phase motor may use 4.0 kW while running. As soon as the power consumption increases to 4.2 kW it may indicate that the motor bearings are going bad or some other machine component is beginning to fail.

The **A210** Power Meter is a very cost effective device for monitoring the performance of electric motors in critical applications where expensive downtime cannot be tolerated.

The **A210** can be installed near the motor either in the optional NEMA 4 housing, on a DIN-rail using the optional DIN rail adapter, or in a ¼ DIN panel cutout.

The **A210** is connected to monitor voltage and current of the electric motor. The motor can be single phase or 3-phase, 3- or 4-wire. See the *Current Sensor Section* for current transformers. PT and CT ratios can be easily programmed from the front panel.

Three values such as Voltage, total Current, phase Current, kWatt, kVAR, Active Power (Watts), Reactive Power (VAR), and Power Factor (pF) can be shown on the **A210** triple display. These values allow you to monitor the running system.

The **A210** also has two alarm functions, which, for example, can be set up by the user for Watt and VAR limits. If something causes the motor power consumption goes up, it will trigger an alarm as soon as the set-point is reached, and indicate the actual measurements when an alarm was triggered.

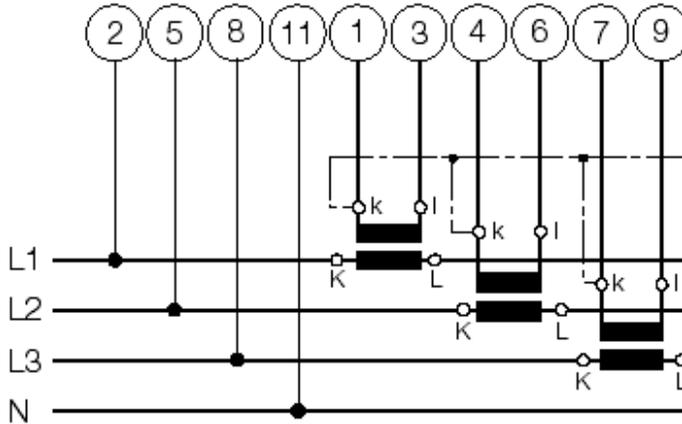
The two alarms can be set at different levels: low value as a warning and a higher value for a possible breakdown.

This alerts the operator of a potential problem and provides a cost effective way to prevent unexpected breakdowns and lost production on any type of machine operated by an electric motor.

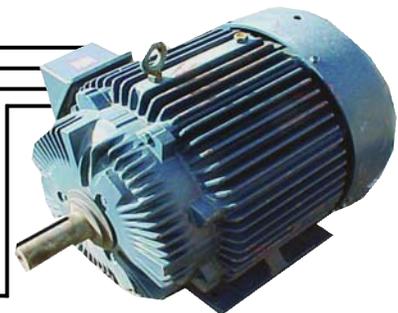
AC Power



The A2000, A210, A220, A230, and A230s are Ideal for Motor and Machinery Monitoring Applications



Example of 4-wire, 3 phase, asymmetric load



FREE APPLICATION ASSISTANCE
 Call **Customer Service**
800-942-0315

For Your Local Area Representative See www.api-usa.com

API maintains a constant effort to upgrade and improve its products. Specifications are subject to change without notice. Consult factory for your specific requirements.