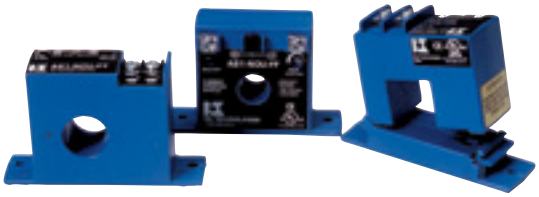
Pump Monitoring and Protection

NK Technologies' family of current transducers, switches and power monitors produce outputs suitable for analog and digital meters, programmable logic controllers (PLC), distributed control systems (DCS), and digital or analog data recording devices.



AC Current Switches

Click here for more information

Over-current & Under-current Protection, Time Delay

AC Current Switches are used on non-critical pumps to detect over- and under-current conditions. Available in N.O. or N.C. designs with optional time delays built in.

Setpoint Range: 1-150 A
Output: Isolated Solid State
Power Supply: None Self Powered

Response Time: <120 ms
Frequency: 6-100 Hz Isolation
Voltage: 1,270 VAC
Environmental: -40° to 133° F (-40° to 55° C), Typical
Agency Approval: UL 508 (USA & Canada)*, CE

DC Designs Available
* Most Models

AC Transducers

Click here for more information

Current Monitoring, Load Measurement

AC Transducers are ideal for monitoring and recording the characteristics of pump motors. Analog outputs include 4-20 mA, 0-5 or 0-10 VDC for easy interface.

Input Range: 0-2000 A
Output: 4-20 mA (True RMS Option), 0-5 or 0-10 VDC

Response Time: < 300 ms, Typical
Frequency: 10 to 400 Hz
Accuracy: < 1.0% FS
Environmental: 58° to 149° F (-50° to 65° C) Typical
Agency Approval: UL 508 (USA & Canada)*, CE

DC Designs Available
* Most Models

Contactor PLC Indicator Light

Digital Meter PLCAC

PLC Shunt Trip Breaker

PLC Digital Displays

Ground Fault Protection

Click here for more information

Ground Faults, Ground Fault Leakage, Safety Protection

Ground Fault Sensors offer a solution to monitor single or three phase pump motors. Sensitivities as low as 5 mA are available for personnel protection and 10-950 mA for machinery protection.

Inputs: Single or 3-phase
Output: N.O. or N.C. Solid-state Switch or SPDT Form C Relay Latching or Non-latching Options Available
Trip Points: 5/10/30 mA (jumper select) or 5-950 mA Adjustable
Environmental: 5° to 158° F (-15° to 70° C)
Agency Approval: UL 1053 Class 1 Recognized or UL 508*, CE

* Most Models

Power Monitors

Click here for more information

Load Monitoring, Dry Run Protection, Cavitation Detection

Power Monitors are used for critical applications. These units are easily interfaced to control systems. They detect and monitor efficiency, dry run, cavitation and clogs.

Input Range: Single or 3-phase, 5-4000 A, 120-600 VAC Output
Signal: kW & kWH (4-20 mA & 0-5 or 0-10 VDC), Power Factor, Frequency, Current, Voltage, kVA, Alarm Contact
Accuracy: 0.5% FS, True RMS Power (±0.5 Hz)
Environmental: 0° to 122° F (-18° to 50° C)
Agency Approval: UL 508 (USA & Canada)*, CE

* Most Models

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