AT SERIES

AC Current Transducers

AT Series AC Current Transducers combine a current transformer and signal conditioner into a single package. These current transducers have jumper-selectable current input ranges and industry standard 4-20 mA, 0-5 VDC or 0-10 VDC outputs. The AT Series AC Current Transducers are designed for application on 'linear' or sinusoidal AC loads and are available in a split-core case or two types of solid-core cases.



AC Current Transducer Applications

Automation Systems

· Analog current reading for remote monitoring and software alarms.

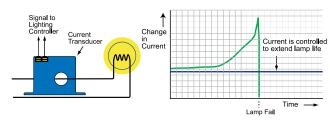
Data Loggers

• Self-powered transducer helps conserve data logger batteries.

Panel Meters

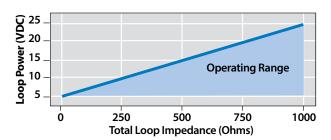
• Simple connection displays power consumption.

Preventative Maintenance of a Critical Lighting System



 For additional Application Examples, go to www.nktechnologies.com/applications

AT Series Power Supply



Test & Evaluation Units for OEMs Free program expedites evaluation process. See page 1 for details.

AC Current Transducer Features

Accurate

· Factory matched and calibrated single piece transducer is more accurate than traditional two-piece field installed solutions.

Average Responding

• "Average Responding" algorithm gives an RMS output on pure sine waves. Perfect for constant speed (linear) loads.

Jumper-selectable Ranges

- · Reduces inventory.
- Eliminates zero and span pots.

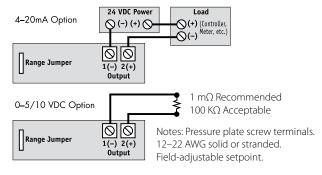
Isolation

- · Output is magnetically isolated from the input for safety.
- Eliminates insertion loss (voltage drop).

UL/cUL and CE Approved

· Accepted worldwide.

AC Current Transducer Connections



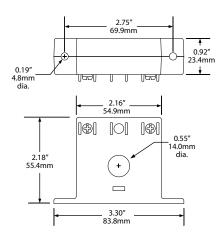




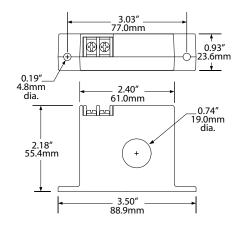


AC Current Transducer Dimensions

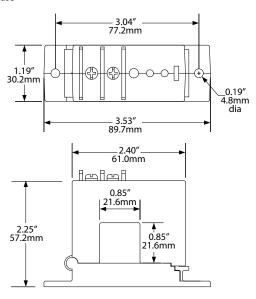
FF Case



FT Case



SP Case



AC Current Transducer Specifications



-005 MODEL -010 MODEL -420 MODEL
wer Supply None, Self-powered 5-40 VDC, Loop-powered
tput Signal 0–5 VDC 0–10 VDC 4–20 mA
tput Limit 8.2 VDC 15 VDC 32 mA
tput Impedence 1 megohm min., Contact factory 100 KΩ add 1.3% error for power requirements
curacy 1.0% FS
sponse Time 100 ms 300 ms
equency Range 50–60 Hz 20–100 Hz*
lation Voltage UL listed to 1270 VAC, tested to 5 KV
out Range 0–200 A Field-selectable; custom ranges available, consult factory
Se UL94 V-0 Flammability Rated
-4 to 122°F (-20 to 50°C) 0–95% RH, non-condensing
ting UL/cUL, CE

^{*}For sinusoidal waveforms only. Select ATR Transducers for distorted waveforms.

AC Current Transducer Ordering Information

Sample Model Number: AT1-005-000-SP

AC current transducer, 10/20/50 A range, self-powered with a 0–5 VDC output in a split-core case. (DIN rail adapters are included)

