

ATP/ATPR 3 & 4 Series

ATP/ATPR 3 & 4 Series products from NK Technologies are large-format solid core transducers designed for high current applications from 200A to 2000A. Powered by 120VAC or 24VAC/VDC, these products take advantage of available power supplies and eliminate the need for costly control power transformers. Options include average responding and True RMS versions, 0-5/10VDC or 4-20mA analog outputs and switch-selectable input ranges.

Powered High Current Transducers, 0-2000A Range with 0-5/10VDC or 4-20mA Output



Applications

Commercial and Industrial MCC's

Fits conveniently in motor control center, senses current on industrial motors and provides analog inputs back to PLC or controller.

VFD or SCR Controlled Loads, Electronic Ballasts

Helpful in monitoring VFD-controlled motors to provide operational status. ATR Series also provides accurate measurement of ballast input power and phase angle fired SCRs.

Large Pumping Applications

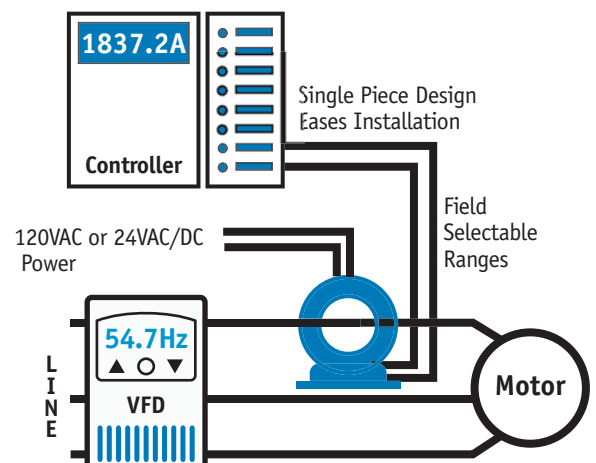
Ideal for proof-of-flow in water/wastewater, boiler and other industrial pumping applications 150 HP and over. 120VAC or 24VAC/VDC supply options allow for powering off of readily available supply, eliminating need for CPTs.

Power Distribution Centers (PDCs)

Monitor current output on commercial generation equipment and serves as a current input for use in power consumption calculations.

Features

- Switch Selectable Input Ranges for Tailored Operation
- Average Responding and True RMS Outputs
- 120VAC or 24VAC/VDC Supply Compatible
- Aperture Accommodates Large Conductors and Paralleled Conductors
- Isolated Inputs and Outputs



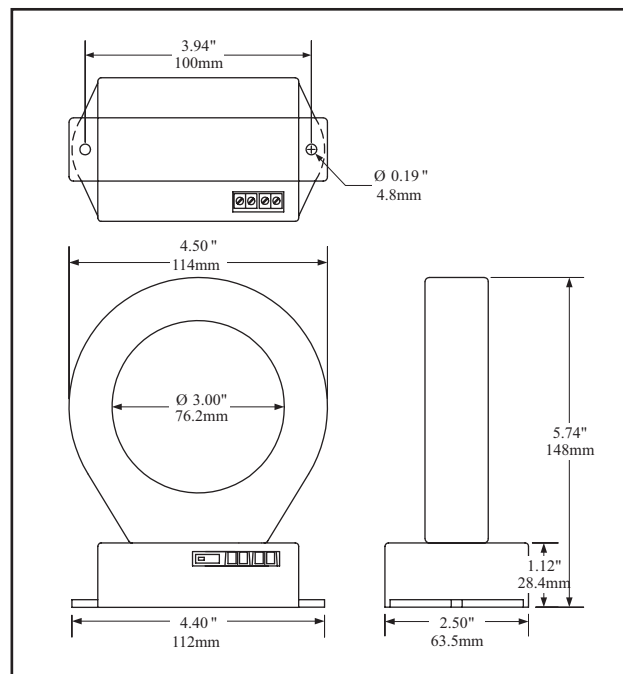
Powered AC Current Transducers

ATP/ATPR 3&4 Series

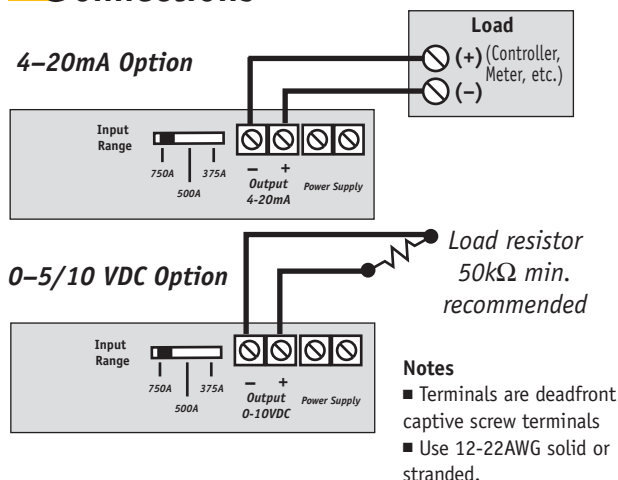
Know your power...
because with knowledge comes control.

Specifications

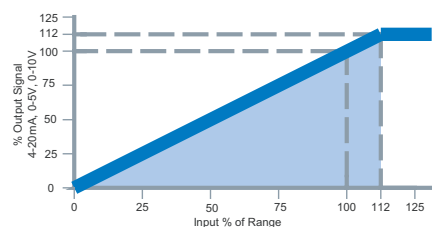
	-005,-010 Models	-420 Models
Output Signal	0-510VDC	4-20mA
Output Limit	112% (11.2V)	112% (22.4mA)
Loading (min.)	50 k Ω	500 k Ω
Response Time	100 ms (10-90% step change)	
Frequency Range	■ ATP: 40-100Hz, Sinusoidal ■ ATPR: 10-400Hz	
Accuracy	1.0% FS	
Power Supply	120VAC or 24VAC/VDC, 2VA max	
Isolation Voltage	600 VAC	
Input Ranges	■ ATP3/ATPR3: 0-375A/500A/750A ■ ATP4/ATPR4: 0-1000A/1333A/2000A	
(switch selectable)		
Sensing Aperture	3.0" (76.2mm) diameter	
Case	UL 94V-0 Flammability Rated	
Environmental	5 to 158°F (-15 to 70°C), 0-95% RH, non-condensing	



Connections



Output



Ordering Information

Example: ATPR3-420-120-FL

Powered True RMS AC Current Transducer, Switch-selectable 0-375/500/750A range, 120VAC Supply, Solid core enclosure.

Type	Range	Output Signal	Power Supply	Case
ATP	3 375-750A	005 0-5 VDC	24U 24VAC/DC	FL Solid-core
R True RMS	4 1000-2000A	010 0-10 VDC	120 120VAC	
- Average Responding (leave blank)		420 4-20 mA		

Powered AC Current Transducers

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