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ATP/ATPR 3 & 4 Series Powered High-Current Transducers are largeformat 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.

ATP/ATPR 3 & 4 SERIES Current Transducers

Applications

Commercial and Industrial MCC's

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

VFD or SCR Controlled Loads, Electronic Ballasts

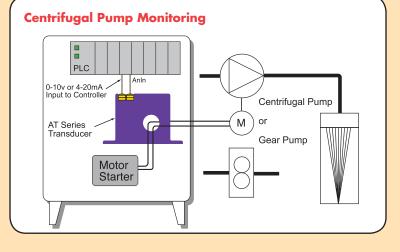
• Helpful in monitoring VFD-controlled motors to provide operational status. ATR Series also provides accurate measurement of ballast input power and phase angle fired SCRs.

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)

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



Features

NADE 12

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Large Aperture

Accommodates large conductors or wire bundles.

Select the Right Output

- True RMS technology is accurate on distorted wave form like those associated with VFD or SCR outputs.
- Average Responding for use with linear, sinusoidal waveforms.

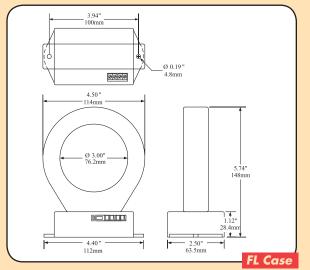
Jumper Selectable Ranges

- Reduces inventory.
- Eliminates zero and span pots.

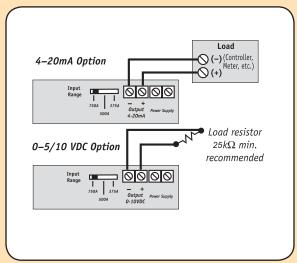
Isolation

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

Dimensions



Connections



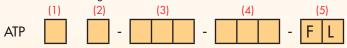
Notes: Terminals are deadfront captive screw terminals. Use 12-22 AWG solid or stranded.

Specifications

| _ | | | |
|----------------------|--------------------|-----------------|---------------|
| Model | -005 Model | -010 Model | -420Model |
| Output Signal | 0-5VDC | 0-10VDC | 4–20mA |
| Output Limit | 112% (5.6V) | 112% (11.2V) | 112% (22.4mA) |
| Loading | 25KΩ min.: V[| DC Models | |
| | 500Ω max.: 4 | –20mA Models | |
| Response Time | 100ms (10-90 |)% step change) | |
| Frequency Range | • ATP: 40-100 | OHz, Sinusoidal | |
| | • ATPR: 10-40 | 00Hz | |
| Accuracy | 1.0% FS | | |
| Power Supply | 120VAC or 24 | VAC/VDC, 2VA | max |
| Isolation Voltage | 600VAC | | |
| Input Ranges | ATP3/ATPR3 | : 0–375A/500A | /750A |
| (switch selectable) | ATP4/ATPR4 | : 0-1000A/133 | 3A/2000A |
| Sensing Aperture | 3.0″ (76.2mm) dia. | | |
| Case | UL94 V0 Flamı | mability Rated | |
| Environmental | 5 to 122°F (-1 | 5 to 50°C) | |
| | 0–95% RH, no | n-condensing | |

Ordering Information

Sample Model Number: ATPR3-420-120-FL True RMS AC current transducer, 24VDC, powered with a 4-20mA output, 375/500/750A ranges in a fixed core case.



(5)

(1) Measurement

R

| True RMS | |
|----------------------------|--|
| Average Responding (Blank) | |

| (5) Case Style | |
|----------------|------------|
| FL | Solid-core |

(2) Full Scale Range

| | 3 | 375-750A |
|--|---|------------|
| | 4 | 1000-2000A |

(3) Output Signal

| 005 | 0-5VDC |
|-----|---------|
| 010 | 0-10VDC |
| 420 | 4-20mA |

(4) Power Supply

| 24U | 24VAC/DC |
|-----|----------|
| 120 | 120VAC |