



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



# AT SERIES Current Transducers

# **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 Signal to Lighting Controller Current Transducer 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.

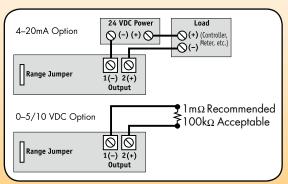
#### Isolation

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

#### **UL, CUL and CE Approval**

Accepted worldwide.

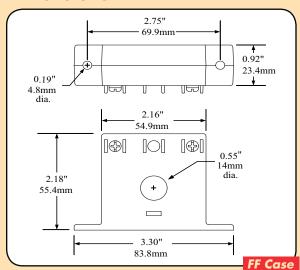
## **Connections**

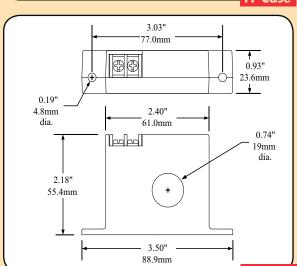


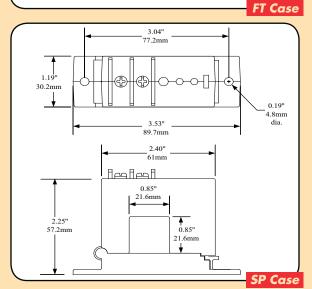
Notes: Pressure plate screw terminals. 12-22 AWG solid or stranded. Field adjustable setpoint.



## **Dimensions**







# **Specifications**

-005 Model	-010 Model	-420 Model
0-5VDC	0-10VDC	4-20mA
8.2VDC	15VDC	32mA
1.0% FS		
100 ms		300 ms
50–60Hz		20-100Hz*
Special calibration available for any frequency from 10–400Hz*		
Self-powered		12–40VDC, Loop-powered
		See Power Sup- ply below
UL listed to 1,270VAC (tested to 5KV)		
Field selectable ranges from 0–200A; custom ranges available; consult factory.		
<ul> <li>-FF Case: 0.55" (14mm) dia.</li> <li>-FT Case: 0.74" (19mm) dia.</li> <li>-SP Case: 0.85" (21.6mm) sq.</li> </ul>		
UL94 V0 Flammability Rated		
• -4 to 122°F (-20 to 50°C) 0–95% RH, non- condensing		
UL 508 Industrial Control Equipment (USA & Canada), CE		
	0–5VDC  8.2VDC  10  50– Special calibrate from 10–400H Self-parameters of the selectable ranges available ranges available of FF Case: 0.3 FF Case: 0.3 FF Case: 0.3 FF Case: 0.4 UL94 V0 Flamm  -4 to 122°F condensing UL 508 Industr	0–5VDC 0–10VDC  8.2VDC 15VDC  1.0% FS  100 ms  50–60Hz  Special calibration available for from 10–400Hz*  Self-powered  1mΩ min. for rated accuracy 100KΩ add 1.3% error  UL listed to 1,270VAC (tested to Field selectable ranges from 0–2 ranges available; consult factory -FF Case: 0.55" (14mm) dia.  -FT Case: 0.74" (19mm) dia.  -SP Case: 0.85" (21.6mm) sq  UL94 V0 Flammability Rated  -4 to 122°F (-20 to 50°C) 0–condensing  UL 508 Industrial Control Equipro

 $<sup>\</sup>ensuremath{^{\star}}\xspace For sinusoidal waveforms only. Select ATR Transducers for distorted waveforms.$ 



# **Ordering Information**

Sample Model Number: AT1-005-000-SP

AC current transducer, 10/20/50A range, self-powered with a 0–5VDC

output in a split-core case.



(1) Full Scale Range

0	2 & 5A
1	10, 20, 50A
2	100, 150, 200A

10		
(3	Power Supp	ıΙν

* * *	
24L	24VDC Loop-powered (4–20mA output ONLY)
000	Self-powered (0–5/0–10VDC output ONLY)

(2) Output Signal

(2) Output Signal		
420	4-20mA	
005	0-5VDC	
010	0-10VDC	

#### (4) Case Style

FF	Solid-core, Front Term.
FT	Solid-core, Top Term.
SP	Split-core