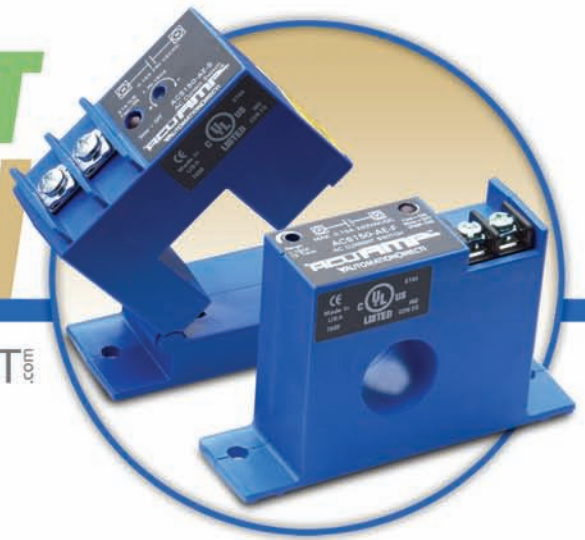


NEW PRODUCT BULLETIN

from  AUTOMATIONDIRECT.com



AC Current Sensors

Overview

The ACUAMP™ series is a family of high performance current sensors offering outstanding features, flexibility and durability at an incredible price. Choose from a wide selection of Current Transducer and Current Switch models, all designed in a rugged industry standard feed-through package, consisting of both fixed core and split core models. Each model has multiple input ranges (set by movable jumpers) for maximum flexibility across many current ratings. The Current Transducer output choices include 4-20 mA (24 VDC loop-powered) and 0-10 volt (self-powered) analog outputs. The Current Switch outputs are isolated solid state switches and are available in Normally

Switches

STARTING AT \$63 U.S.

- ACS series current operated switches offer discrete outputs for low-cost status indication and alarming
- ACSX series current-operated switches offer higher performance with a field-adjustable time delay feature to minimize nuisance trips

Open configurations. A unit featuring field adjustable time delay is also offered in the Current Switch series. All models are panel-mountable and a convenient DIN-rail

Transducers

STARTING AT \$73 U.S.

- ACT series transducers have jumper-selectable current input ranges and industry-standard 4-20mA or 0-10 VDC outputs ideal for remote monitoring, data logging and alarming
- ACTR series True RMS transducers combine a current transformer and true RMS signal conditioner in one unit for accurate measurement of distorted waveforms, SCRs, power supply and ballast input power

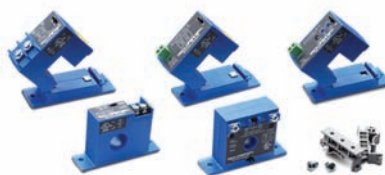
adapter is available. Use the selection guide to find the best sensor model for your requirements.

For complete part listing, specifications and pricing, visit: www.automationdirect.com/currentsensors

ACUAMP Specifications by Model Type						
Specifications		Switch	Switch	Switch	Transducer	Transducer with True RMS
Model		ACS150	ACS200	ACSX	ACT	ACTR
Input Range	Fixed Core	1 to 150 A	Jumper Selectable: 1 to 6 Amp 6 to 40 Amp 40 to 175 Amp	Jumper Selectable: 1 to 12 Amp 12 to 55 Amp 55 to 175 Amp	Jumper selectable: ACT005: 0 to 2 Amp 0 to 5 Amp ACT050: 0 to 10 Amp 0 to 20 Amp 0 to 50 Amp ACT200: 0 to 100 Amp 0 to 150 Amp 0 to 200 Amp	Jumper selectable: ACTR005: 0 to 2 Amp 0 to 5 Amp ACTR050: 0 to 10 Amp 0 to 20 Amp 0 to 50 Amp ACTR200: 0 to 100 Amp 0 to 150 Amp 0 to 200 Amp
	Split Core	1.75 to 150 A	1.75 to 6 Amp 6 to 40 Amp 40 to 200 Amp	2 to 12 Amp 12 to 55 Amp 55 to 200 Amp		
Output Rating		0.15 A @ 240V AC/DC	-AA Model: 1A@240 VAC -AD Model: 0.15A@30VDC	-AA Model: 1A @ 240 VAC -AE Model: 0.15A @ 240V AC/DC	-10 models: 0-10 VDC, self powered -42L models: 4-20 mA loop-powered (requires external 24VDC)	4 - 20 mA, loop-powered true RMS (requires external 24VDC)
Frequency Range		6 to 100 Hz	6 to 100 Hz	50 to 100 Hz	-10 models: 50 to 60 Hz sinusoidal waveforms only -42L models: 20 - 100 Hz	10 to 400 Hz non-sinusoidal waveforms
Response Time		120 ms	40 to 120 ms	Field adjustable time delay: 0.2 to 15 seconds	-10 models: 100 ms -42 models: 300 ms	600 ms
Sensing Aperture	Fixed Core	0.55" (14mm) dia.		0.75" (19mm) dia.	0.75" (19mm) dia.	
	Split Core	0.85" (21.6mm) sq.				0.85" (21.6mm) sq.

Features

- Five-year warranty
- N.O. Outputs with choice of AC, DC or Universal 0.15 A @ 240V AC/DC for use with most standard motor control systems.
- Status LED provides visual indication of setpoint trip and contact action
- Self-powered models cut installation time and operating costs
- Field-adjustable trip points speed start-up and allow for tailored operation
- Choose either split-core or fixed-core enclosure style. Split-core packages allow easy installation on existing systems; fixed-core enclosures offer more compact package for OEM or new installations.
- Integral mounting feet ensure secure mounting
- Adjustable timer models are field adjustable from 0.2 to 15 seconds to eliminate nuisance alarms caused by start-up inrush or temporary overcurrent conditions.



- Industrial grade performance-constant hysteresis and linear response characteristic enhance accuracy to setpoint
- Choice of jumper-selectable ranges reduces inventory and eliminates zero and span pots
- Output is magnetically isolated from the input for safety and eliminates voltage drop
- True RMS models are accurate on distorted waveforms such as VFD or SCR outputs

Agency Approvals

- UL, cUL, CE approvals accepted worldwide (CE approval pending on ACSX models)

Applications

Electronic Proof of Flow

- Current operated switch eliminates the need for multiple pipe or duct penetrations
- More reliable than electromechanical pressure or flow switches

Conveyors

- Detect jams and overloads; useful when interlocking multiple conveyor sections

Heating Circuits

- Detect on/off status, faster response times than with temperature sensors

Loss of Load Detection

- Detect belt or coupling breaks with fast response times

Lighting Circuits

- Easier and faster than photocells

Motor Protection

- Serves as an electronic proof-of-operation; detects current draw changes in motors when they encounter problems such as pumps running dry or pending bearing failure
- Non-intrusive, less expensive to install than differential pressure flow sensors or thermal switches. Much quicker response time than Class 10 overload relays.

High Inrush or Temporary Overload Current

- Adjustable start-up/delay timer allows 0-15 second delay to eliminate nuisance trips from high inrush or short overload conditions

Automation Systems

- Analog current reading for remote monitoring and software alarms

Data Loggers

- Self-powered transducer helps conserve data logger batteries. Split-core models make using portable data loggers easy.

Panel Meters

- Simple connection displays power consumption or other motor status

VFD Controlled Loads

- VFD output indicates how the motor and attached load are operating

SCR Controlled Loads

- Accurate measurement of phase angle fired or burst fired (time proportioned) SCRs. Current measurement gives faster response than temperature measurement.

Switching Power Supplies & Electronic Ballasts

- True RMS sensing is the most accurate way to measure power supply or ballast input power

acuAMP Full Product Lineup

Part Number	Detection Range(s)	Package	Output	Price
Switch - Single Range				
ACS150-AE-F	1 to 150A Adjustable	Fixed Core	N.O., 0.15A @ 240VAC/DC Max	\$ 63.00
ACS150-AE-S	1.75 to 150A Adjustable	Split Core	N.O., 0.15A @ 240VAC/DC Max	\$ 77.00
Switch - Multi Range				
ACS200-AA-F	1-6A, 6-40A, or 40-175A Adj.	Fixed Core	N.O., 1A @ 240VAC Max	\$ 68.00
ACS200-AD-F	1-6A, 6-40A, or 40-175A Adj.	Fixed Core	N.O., 0.15A @ 30VDC Max	\$ 68.00
ACS200-AA-S	1.75-6A, 6-40A, or 40-200A Adj.	Split Core	N.O., 1A @ 240VAC Max	\$ 79.00
ACS200-AD-S	1.75-6A, 6-40A, or 40-200A Adj.	Split Core	N.O., 0.15A @ 30VDC Max	\$ 79.00
Switch - Multi Range with Time Delay (up to 15 sec)				
ACSX200-AA-F	1-12A, 12-55A, or 55-175A Adj.	Fixed Core	N.O., 1A @ 240VAC Max	\$ 83.00
ACSX200-AE-F	1-12A, 12-55A, or 55-175A Adj.	Fixed Core	N.O., 0.15A @ 240VAC/DC Max	\$ 79.00
ACSX200-AA-S	2-12A, 12-55A, or 55-200A Adj.	Split Core	N.O., 1A @ 240VAC Max	\$ 92.00
ACSX200-AE-S	2-12A, 12-55A, or 55-200A Adj.	Split Core	N.O., 0.15A @ 240VAC/DC Max	\$ 89.00
Transducer - Variable Output				
ACT050-10-F	0-10A, 0-20A, or 0-50A	Fixed Core	0-10 VDC	\$ 85.00
ACT200-10-F	0-100A, 0-150A, or 0-200A	Fixed Core	0-10 VDC	\$ 90.00
ACT050-10-S	0-10A, 0-20A, or 0-50A	Split Core	0-10 VDC	\$ 95.00
ACT200-10-S	0-100A, 0-150A, or 0-200A	Split Core	0-10 VDC	\$ 99.00
ACT005-42L-F	0-2A or 0-5A	Fixed Core	4-20 mA (requires external 24VDC)	\$ 73.00
ACT050-42L-F	0-10A, 0-20A, or 0-50A	Fixed Core	4-20 mA (requires external 24VDC)	\$ 75.00
ACT200-42L-F	0-100, 0-150, or 0-200A	Fixed Core	4-20 mA (requires external 24VDC)	\$ 108.00
ACT005-42L-S	0-2A or 0-5A	Split Core	4-20 mA (requires external 24VDC)	\$ 98.00
ACT050-42L-S	0-10A, 0-20A, or 0-50A	Split Core	4-20 mA (requires external 24VDC)	\$ 105.00
ACT200-42L-S	0-100, 0-150, or 0-200A	Split Core	4-20 mA (requires external 24VDC)	\$ 115.00
Transducer - Variable Output (True RMS)				
ACTR005-42L-F	0-2A or 0-5A	Fixed Core	4-20 mA (requires external 24VDC)	\$ 135.00
ACTR050-42L-F	0-10A, 0-20A, or 0-50A	Fixed Core	4-20 mA (requires external 24VDC)	\$ 125.00
ACTR200-42L-F	0-100, 0-150, or 0-200A	Fixed Core	4-20 mA (requires external 24VDC)	\$ 127.00
ACTR005-42L-S	0-2A or 0-5A	Split Core	4-20 mA (requires external 24VDC)	\$ 154.00
ACTR050-42L-S	0-10A, 0-20A, or 0-50A	Split Core	4-20 mA (requires external 24VDC)	\$ 156.00
ACTR200-42L-S	0-100, 0-150, or 0-200A	Split Core	4-20 mA (requires external 24VDC)	\$ 159.00

All prices are U.S. Prices.

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DRA-2 - DIN rail adapter for acuAMP transducers and switches, pack of 2
\$3.50