

CURRENT MONITORS

ATC-Diversified Electronics has a Current Monitor available to fit almost any monitoring application. The operation of the **CM Series**, AC Current Monitor/Relays, is based on an internal current transformer magnetically coupling the solid state sensing circuitry to the line being monitored. The operation of the **CD Series**, DC Current Monitor/Relays, is based on an internal Hall-effect device with a magnetic concentrator coupling the solid state sensing circuitry to the line being monitored. When the monitored current reaches a preset threshold point, an internal relay switches. The heavy duty contacts are used for instrumentation or signaling alarm circuits. The current sensing range of the ATC-Diversified Electronics AC Current Monitor/Relays can be increased by the use of an external Current Transformer. With the use of external Current Transformers you can monitor the current on almost any application. The feature matrix below shows the Current Monitor Series available from ATC-Diversified Electronics and highlights their features and specifications.

TYPICAL APPLICATIONS

The following are some typical applications for ATC-Diversified Electronics Current Monitors:

- Sense current demand level
- Run time totalizer
- Detect conveyor load jam
- Detect heater element failure
- Detect the use of dull bits or blades
- Detect runway lights and radio tower light failures
- Remote motor sensing
- Sense load loss
- Detect broken fan belts or chains

FEATURE MATRIX

SERIES	SENSING FEATURES				CONTROL VOLTAGE			ADJUSTABLE CURRENT RANGE					ENCLOSURE			RESET		TIME DELAY				UL RECOGNIZED	UL RECOGNIZED FOR CANADA		
	OVER CURRENT	UNDER CURRENT	THREE PHASE UNBALANCE	SELF POWERED	24 VDC	24 VAC	120 VAC	0.25 (0.05 TO 0.25 AMPS)	1 (0.2 TO 1.0 AMPS)	5 (1.0 TO 5.0 AMPS)	10 (2.0 TO 10 AMPS)	20 (4.0 TO 20.0 AMPS)	30 (6.0 TO 30 AMPS)	"A" STYLE PLUG-IN	"D" STYLE SURFACE MOUNT	"E" STYLE SURFACE MOUNT	AUTOMATIC	MANUAL	FIXED (OPERATE)	ADJUSTABLE (OPERATE)	FIXED (RELEASE)			ADJUSTABLE (RELEASE)	
CBA	•	•					•	•	•	•	•	•			•	•		•		•					
CDD	•	•					•	•	•	•	•				•	•			•		•				
CDO	•						•	•	•	•	•				•	•			•	•					
CDU		•					•	•	•	•	•				•	•			•		•				
CLB	•		•				•		•	•					•	•	•	•	•		•				
CMB	•				•	•	•	1-10 amps fixed					•			•			•		•		•	•	
CMD	•	•			•	•	•	•	•	•	•				•	•				•		•			
CMG				•				20-36 amp fixed (0100 series only)						•		•			•		•			•	•
CMI	•					•	•	•	•	•	•				•		•	•	•		•				
CML	•					•	•	•	•	•	•		•		•		•			•	•				
CMO	•				•	•	•	•	•	•	•		•		•	•			•	•					
CMU		•			•	•	•	•	•	•	•		•		•	•			•		•				