CT-MS & CT-LS SERIES 1 A & 5 A Secondary Current Transformers

1 A and 5 A Secondary Current Transformers offer a compact, cost-effective means of measuring primary current. These current transformers provide an easy-to-install method to measure AC current, producing a 0–1 A or 0–5 A output proportional to the current flowing through the sensing window. Both the CT-MS and the CT-LS series offer a larger-than-average sensing window and a split-core design for easy installation.

Current Transformer Features

- Split-core case for convenient installation over large wires or bus bars.
- 1 A and 5 A secondary CTs are compatible with standard power monitors and panel meters designed for 1 A or 5 A input.
- Larger sensing windows: MS Series aperture measures 2.22" x 1.19" and measures current from 0–150 to 0–800 A.
 LS Series aperture measures 3.49" x 2.36" and measures current from 0–800 to 0–1600 A.
- Plated terminals for reliability.
- UR recognized file E475131. Meets ANSI/IEEE C57.13 and IEEE C57.13.2.

Current Transformer Applications

- Serves as current input for use with APT and APN series KW transducers.
- Saves space in control panels by remotely locating the sensing of the current closer to the load.
- The current transformer secondary can be connected to the NK CTC-05A-420-24L-DIN to produce a loop-powered, 4–20 mA signal proportional to the current through the CT.

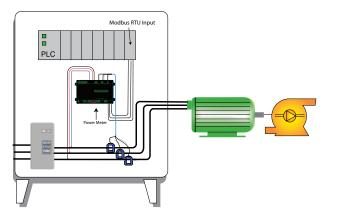
Power-Pump Load Monitoring

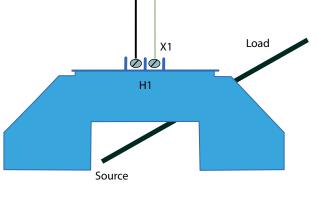




Connecting a Current Transformer

A current transformer (CT) should never be energized (AC current through the sensing window) without a load connected to the output terminals. Best practice is to terminate the current transformer secondary on a terminal block with the ability to short between two points before extending the leads to the load. If it is ever necessary to remove the load from the CT while it is or could become energized, a shorting bar can be placed between the secondary loads, as shown in the drawing below. This will allow the load to be removed safely.







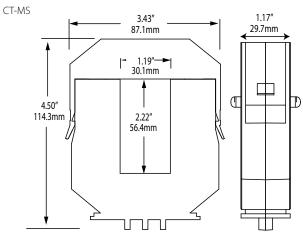
Test & Evaluation Units for OEMs Free program expedites evaluation process. See page 3 for details.

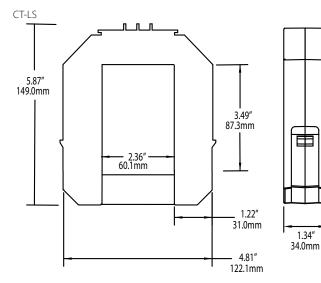


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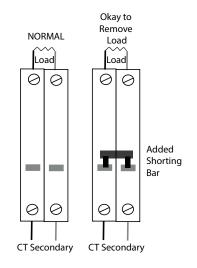


Current Transformer Dimensions





Current Transformer Connections



Current Transf	ormer	Specif	ficatio	ons				CE
Power Supply	None, s	elf-pov	vered					
Current Range	• CT-MS: 0–150 through 0–800 A • CT-LS: 0–800 through 0–1600 A							
Output Signal	0–1 A or 0–5 A (AC)							
Frequency	50–400 Hz							
Primary Circuit Voltage	600 VAC							
Accuracy	• 200–1600 A models: ±1% (10–100% of range) to 50°C • 150 A model: ±1.5% (10–100% of range) to 50°C							
Linearity	0.5% (10–100% of range)							
Thermal Rating	1.0 @ 30°C							
Listings	UL/cUL	JL, CE						
Weight	CT-MS Series			CT-LS Series				
	15	0	<0.	75 lbs.	8	00	2.0	lbs.
	20	0	<0.	75 lbs.	10	00	2.2	lbs.
	30	0	<0.	75 lbs.	1200		2.3 lbs.	
	40	0	<0.	75 lbs.	14	1400 2.3 lbs.		lbs.
	50	0	<0.	75 lbs.	1600 2.4		lbs.	
	60	0	<0.	75 lbs.				
	80	0	<0.	75 lbs.]			
Allowable	CT-MS Series				CT-LS Series			
Burden	1 A Seco	ondary	5 A Sec	ondary	1 A Sec	ondary	5 A Secondary	
	Ratio	Burden	Ratio	Burden	Ratio	Burden	Ratio	Burden
	150:1	1.0 VA	150:5	1.2 VA	800:1	16.0 VA	800:5	10.0 VA
	200:1	1.0 VA	200:5	1.2 VA	1000:1	16.0 VA	1000:5	10.0 VA
	300:1	1.0 VA	300:5	1.2 VA	1200:1	16.0 VA	1200:5	10.0 VA
	300:5	4.5 VA			1400:1	16.0 VA		
	400:1	1.0 VA	400:5	1.2 VA			1600:5	12.5 VA
	500:1	2.0 VA	500:5	5.0 VA				

Current Transformer Ordering Information

2.5 VA

2.0 VA

600:5

800:5

7.5 VA

7.5 VA

600:1

800:1

Sample Model Number: CT-0800-5-LS Current transformer with 800:5 ratio allowable burden, 5 A secondary output, and large sensing window.



(1) Model	
CT-MS Models	

C I-INIS INIOUEIS		
0150	150 ratio	
0200	200 ratio	
0300	300 ratio	
0400	400 ratio	
0500	500 ratio	
0600	600 ratio	
0800	800 ratio	

0–1 A secondary

0-5 A secondary

CT-LS Models		
0800	800 ratio	
1000	1000 ratio	
1200	1200 ratio	
1400	1400 ratio (1 A only)	
1600	1600 ratio (5 A only)	

(3) Case Style

MS	Medium sensing window
LS	Large sensing window

Test & Evaluation Units for OEMs Free program expedites evaluation process. See page 3 for details.





(2) Output Signal

1

5

Current Transformers