

**Model CTC Series  
Current Transducers Clamped  
Amperage  
30, 60, 120 and 20, 100, 150**



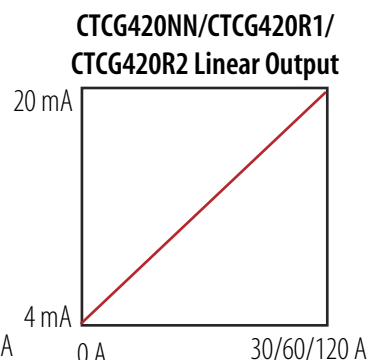
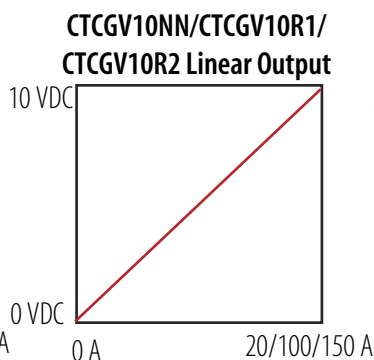
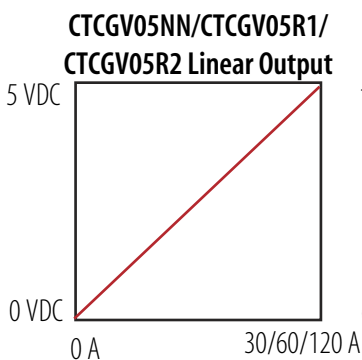
Setra's CTC Series Split Core Current Transducers combine accurate magnetic current sensing with signal conditioning electronics. They are available in either 24 VDC loop power or self-powered, which means they are easy to install and put into operation. Their self-gripping, compact split core design makes it easy to retrofit into existing equipment

Each unit has a three position slide switch to select the most suitable range for the application. The 0 to 5V and 4 to 20 mA output units have

30/60/120 Amp sensing ranges. The 0 to 10 V output units have a 20/100/150 Amp sensing range.

In addition the CTC/R units have snap-on power relays and LED indicators for remote motor startup.

These units are ideal for monitoring current in PLCs (power line carrier communications) & AMR systems or in remote control system of SCADA software for automation & supervision, security, condition monitoring in protection systems and for predictive maintenance of con-



## Applications

- HVAC
- Refrigeration
- Pumps
- Small Industrial Motors
- Fans
- Lighting

## CTC Series

### Features

- Clamped/Split Core Design
- Slide Switch, Selectable Amperage Ranges
- Snap on Power Relay
- Relay LED Indication on CTC/R units

### Benefits

- Low Cost Solution
- 24 VDC Loop Power or Self Powered
- Simple Installation

**setra**  
ISO-9001 Certified

**800-257-3872**

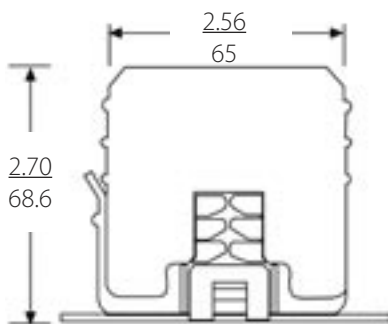
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<http://www.setra.com>

## CTC Series (Current Transducers Clamped) Specifications

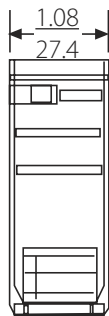
MODEL	CTCG420NN	CTCGV05NN	CTCGV10NN	CTCG420R1 CTCG420R2	CTCGV05R1 CTCGV05R2	CTCGV10R1 CTCGV10R2
Multi-Range	30/60/120 A	30/60/120 A	20/100/150 A	30/60/120 A	30/60/120 A	20/100/150 A
Continuous Operating Current	120 A Max.	120 A Max.	150 A Max.	120 A Max.	120 A Max.	150 A Max.
Output	4-20 mA	0-5 VDC	0-10 VDC	4-20 mA	0-5 VDC	0-10 VDC
Accuracy ( $\geq 10\%$ FS)	$\pm 2\%$ of Selected Ranges			$\pm 2\%$ of Selected Ranges		
Response Time	2 seconds					
Output Relay	No	No	No	SPST. NO 10 A @ 260 V AC, 5 A @ 30 V DC	SPST. NO 10 A @ 260 V AC, 5 A @ 30 V DC	SPST. NO 10 A @ 260 V AC, 5 A @ 30 V DC
Relay LED Indication	No	No	No	Yes	Yes	Yes
Actuation Coil	No	No	No	R1: 24 V AC/DC R2: 12 V AC/DC	R1: 24 V AC/DC R2: 12 V AC/DC	R1: 24 V AC/DC R2: 12 V AC/DC
Dimensions	2.7 x 2.56 x 1.08 in. (68.6 x 65 x 27.4 mm)	2.7 x 2.56 x 1.08 in. (68.6 x 65 x 27.4 mm)	2.7 x 2.56 x 1.08 in. (68.6 x 65 x 27.4 mm)	2.7 x 2.56 x 1.73 in. (68.6 x 65 x 44 mm)	2.7 x 2.56 x 1.73 in. (68.6 x 65 x 44 mm)	2.7 x 2.56 x 1.73 in. (68.6 x 65 x 44 mm)
Aperture Size	0.72 x 0.78 in. (18 x 20 mm)					
Sensor Supply Voltage	24 VDC Loop Power	Self-Powered		24 VDC Loop Power	Self-Powered	
Isolation Voltage	600 V AC rms.					
Temperature Range	5 to 140 °F (-15 to 60 °C)					

### Outline Drawings

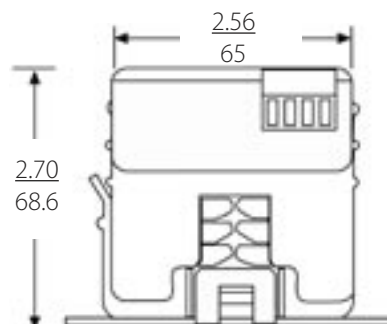
### CTC Series (Current Transducer Clamped)



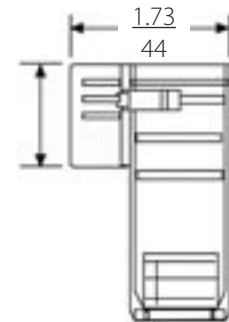
*Models*  
CTCG420NN, CTCGV05NN  
, CTCGV10NN



in.  
mm



*Models*  
CTCG420R1/2, CTCGV05R1/2,  
CTCGV10R1/2



### ORDERING INFORMATION

#### Model CTC Series (Current Transducer Clamped)

##### Model No.

CTCG420NN  
CTCGV05NN  
CTCGV10NN  
CTCG420R1/R2  
CTCGV05R1/R2  
CTCGV10 R1/R2

##### Description

Model CTC, Output 4 to 20 mA  
Model CTC, Output 0 to 5 VDC  
Model CTC, Output 0 to 10 VDC  
Model CTC, Output 4 to 20 mA, with Snap-on Power Relay (R1: 24 V AC/DC Coil; R2: 12 V AC/DC Coil)  
Model CTC, Output 0 to 5 VDC, with Snap-on Power Relay (R1: 24 V AC/DC Coil; R2: 12 V AC/DC Coil)  
Model CTC, Output 0 to 10 VDC, with Snap-on Power Relay (R1: 24 V AC/DC Coil; R2: 12 V AC/DC Coil)

† Contact factory to order power relay separately.

While we provide application assistance on all Setra products, both personally and through our literature, it is up to the customer to determine the suitability of the product in the application.

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