

CURRENT TRANSDUCERS

HALL EFFECT CURRENT TRANSDUCER

MODEL CTL

FREQUENCY RANGE DC TO 1000 HERTZ

FEATURES AND APPLICATIONS

- 2200 Volt line-to-output isolation.**
- DC to 1000 Hertz response.
- Available in split-core configurations, except Model 51.
- Response time less than 100 microseconds.
- Output is proportional in **direction and magnitude** to the current flow through the window.

**1000 Volt Model 51 and Split Core Options Models 101, 201 and 401.

- Overload capability to **50 times rating** (at 60Hz).
- Stability maintained during severe vibration.
- Easy installation.
- Replaces shunts.
- No insertion loss.
- For use with model CTA signal conditioners.
- Ideal for use on AC systems with dc components and/or chopped waveforms.



CIRCULAR WINDOW MODELS (0.5% Accuracy & Linearity)

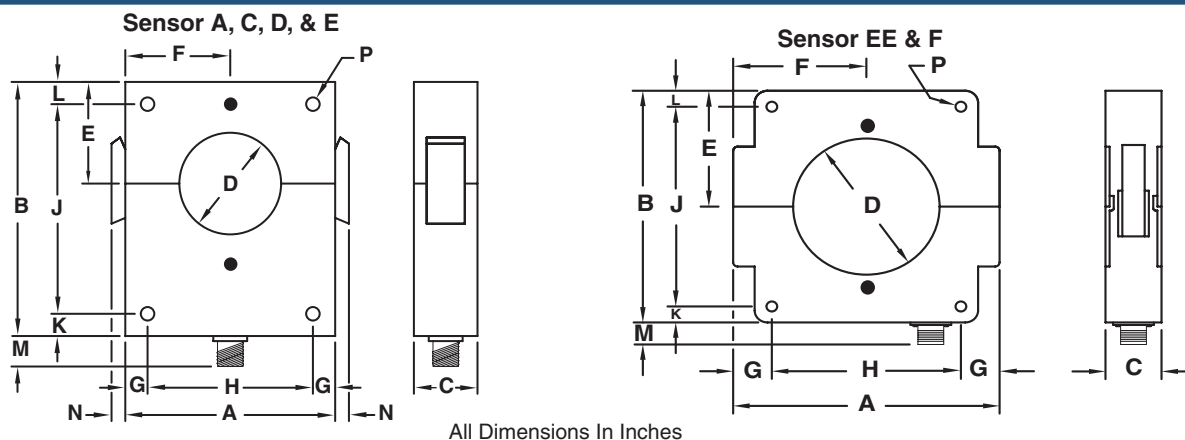
*Split core models are not UL listed.

PEAK CURRENT (A)	EXCITATION (NOMINAL) (mA)	OUTPUT (NOMINAL) (mV)	TEMPERATURE		RESISTANCE (Ω)		SENSOR SIZE	CATALOG NUMBER
			EFFECTS	RANGE (C°)	INPUT	OUTPUT		
35	200	35	1%	-10°C to +40°C	6 $\pm$ 3	25 $\pm$ 15	A	CTL-51/35
50	200	50	1%	-10°C to +40°C	6 $\pm$ 3	25 $\pm$ 15	A	CTL-51/50
50	200	50	1%	-10°C to +40°C	6 $\pm$ 3	25 $\pm$ 15	*C	CTL-101/50
75	200	75	1%	-10°C to +40°C	6 $\pm$ 3	25 $\pm$ 15	*C	CTL-101/75
100	200	100	1%	-10°C to +40°C	6 $\pm$ 3	25 $\pm$ 15	*C	CTL-101/100
150	200	75	1%	-10°C to +40°C	6 $\pm$ 3	25 $\pm$ 15	*D	CTL-201/150
200	200	100	1%	-10°C to +40°C	6 $\pm$ 3	25 $\pm$ 15	*D	CTL-201/200
300	200	75	1%	-10°C to +40°C	6 $\pm$ 3	25 $\pm$ 15	*D	CTL-401/300
400	200	100	1%	-10°C to +40°C	6 $\pm$ 3	25 $\pm$ 15	*D	CTL-401/400
500	200	40	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	E	CTL-601/500
600	200	50	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	E	CTL-601/600
800	200	40	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	E	CTL-202/800
1000	200	50	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	E	CTL-202/1000
1500	200	75	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	E	CTL-202/1500
2000	200	100	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	E	CTL-202/2000
500	200	40	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	F	CTL-601FS/500
600	200	50	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	F	CTL-601FS/600
800	200	40	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	F	CTL-202FS/800
1000	200	50	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	F	CTL-202FS/1000
1500	200	75	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	F	CTL-202FS/1500
2000	200	100	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	F	CTL-202FS/2000
1000	200	100	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	EE	CTL-202EES/1000
1500	200	150	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	EE	CTL-202EES/1500
2000	200	200	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	EE	CTL-202EES/2000
2500	200	85	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	EE	CTL-302EES/2500
3000	200	100	1%	-10°C to +40°C	23 $\pm$ 5	25 $\pm$ 15	EE	CTL-302EES/3000



NOTE: See next page for CTA Options

CIRCULAR MODEL DIMENSIONS



SENS. SIZE	SENSOR DIMENSIONS														WT. LBS.
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	
A	1 1/8	1 1/2	1/2	3/8	9/16	9/16	9/32	9/16	NA	3/16	NA	NA	NA	1/8	0.12
C	2	2	3/4	3/4	7/8	1	1/4	1 1/2	NA	1/4	NA	NA	1/4	5/32	0.28
D	3 1/8	4	3/4	1 1/8	1 1/2	1 9/16	1/2	2 1/8	NA	1/2	NA	1/2	1/4	11/64	0.75
E	4 1/8	5	1 1/4	2	2	2 1/16	7/16	3 1/4	4 1/8	7/16	7/16	5/8	5/16	17/64	2.0
F	5 3/8	5 1/4	1 5/8	2 1/4	2 5/8	2 11/16	1 1/16	3 1/4	4 1/8	9/16	9/16	5/8	NA	1/4	2.8
EE	7 3/4	7 1/4	1 5/8	4 1/4	3 5/8	3 7/8	1 1/8	5 1/2	6 1/4	1/2	1/2	5/8	NA	5/16	4.5

CABLE LENGTHS

Solid core models supplied with integral 18" cables for sensor sizes A,C,D. All others have 8' cable. Split core models use 4 pin connector-supplied with mating connector and 8 ft. 4 conductor cable.

FLEX-CORE®

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CURRENT TRANSDUCERS

SIGNAL CONDITIONERS

MODEL CTA

FOR USE WITH MODEL CTL CURRENT TRANSDUCERS



DIRECT MEASUREMENT MODELS

- Provide output which is directly proportional to amplitude of AC and/or dc input waveform.

RMS MODELS

- Provide output which is proportional to RMS value of AC and/or dc input waveform.

MODEL CTL CURRENT TRANSDUCER	TRANSDUCER INPUT CURRENT RANGE	DIRECT MODELS OUTPUT PROPORTIONAL TO AC/DC INPUT					RMS MODELS OUTPUT PROPORTIONAL TO RMS OF AC/DC INPUT			
		STANDARD AC/DC OUTPUTS					STANDARD DC OUTPUTS			
		±5V**	±10V**	4-12-20mA**	4-20mA	±1mA**	0-5Vdc	0-10Vdc	4-20mAdc	0-1mAdc
CTL-51/35	0-35A	CTA201RX5	CTA201R	CTA212RY42	CTA212R	CTA201RA	CTA213RX5	CTA213R	CTA215R	CTA214R
CTL-51/50	0-50A	CTA201X5	CTA201	CTA212Y42	CTA212	CTA201A	CTA213X5	CTA213	CTA215	CTA214
CTL-101/50	0-50A	CTA201X5	CTA201	CTA212Y42	CTA212	CTA201A	CTA213X5	CTA213	CTA215	CTA214
CTL-101/75	0-75A	CTA201HX5	CTA201H	CTA212HY42	CTA212H	CTA201HA	CTA213HX5	CTA213H	CTA215H	CTA214H
CTL-101/100	0-100A	CTA201PX5	CTA201P	CTA212PY42	CTA212P	CTA201PA	CTA213PX5	CTA213P	CTA215P	CTA214P
CTL-201/150	0-150A	CTA201HX5	CTA201H	CTA212HY42	CTA212H	CTA201HA	CTA213HX5	CTA213H	CTA215H	CTA214H
CTL-201/200	0-200A	CTA201PX5	CTA201P	CTA212PY42	CTA212P	CTA201PA	CTA213PX5	CTA213P	CTA215P	CTA214P
CTL-401/300	0-300A	CTA201HX5	CTA201H	CTA212HY42	CTA212H	CTA201HA	CTA213HX5	CTA213H	CTA215H	CTA214H
CTL-401/400	0-400A	CTA201PX5	CTA201P	CTA212PY42	CTA212P	CTA201PA	CTA213PX5	CTA213P	CTA215P	CTA214P
CTL-601/500	0-500A	CTA201FX5	CTA201F	CTA212FY42	CTA212F	CTA201FA	CTA213FX5	CTA213F	CTA215F	CTA214F
CTL-601/600	0-600A	CTA201X5	CTA201	CTA212Y42	CTA212	CTA201A	CTA213X5	CTA213	CTA215	CTA214
CTL-202/800	0-800A	CTA201FX5	CTA201F	CTA212FY42	CTA212F	CTA201FA	CTA213FX5	CTA213F	CTA215F	CTA214F
CTL-202/1000	0-1000A	CTA201X5	CTA201	CTA212Y42	CTA212	CTA201A	CTA213X5	CTA213	CTA215	CTA214
CTL-202/1500	0-1500A	CTA201HX5	CTA201H	CTA212HY42	CTA212H	CTA201HA	CTA213HX5	CTA213H	CTA215H	CTA214H
CTL-202/2000	0-2000A	CTA201PX5	CTA201P	CTA212PY42	CTA212P	CTA201PA	CTA213PX5	CTA213P	CTA215P	CTA214P
CTL-601FS/500	0-500A	CTA201FX5	CTA201F	CTA212FY42	CTA212F	CTA201FA	CTA213FX5	CTA213F	CTA215F	CTA214F
CTL-601FS/600	0-600A	CTA201X5	CTA201	CTA212Y42	CTA212	CTA201A	CTA213X5	CTA213	CTA215	CTA214
CTL-202FS/800	0-800A	CTA201FX5	CTA201F	CTA212FY42	CTA212F	CTA201FA	CTA213FX5	CTA213F	CTA215F	CTA214F
CTL-202FS/1000	0-1000A	CTA201X5	CTA201	CTA212Y42	CTA212	CTA201A	CTA213X5	CTA213	CTA215	CTA214
CTL-202FS/1500	0-1500A	CTA201HX5	CTA201H	CTA212HY42	CTA212H	CTA201HA	CTA213HX5	CTA213H	CTA215H	CTA214H
CTL-202FS/2000	0-2000A	CTA201PX5	CTA201P	CTA212PY42	CTA212P	CTA201PA	CTA213PX5	CTA213P	CTA215P	CTA214P
CTL-202EES/1000	0-1000A	CTA201PX5	CTA201P	CTA212PY42	CTA212P	CTA201PA	CTA213PX5	CTA213P	CTA215P	CTA214P
CTL-202EES/1500	0-1500A	CTA201KX5	CTA201K	CTA212KY42	CTA212K	CTA201KA	CTA213KX5	CTA213K	CTA215K	CTA214K
CTL-202EES/2000	0-2000A	CTA201LX5	CTA201L	CTA212LY42	CTA212L	CTA201LA	CTA213LX5	CTA213L	CTA215L	CTA214L
CTL-302EES/2500	0-2500A	CTA201JX5	CTA201J	CTA212JY42	CTA212J	CTA201JA	***	***	***	***
CTL-302EES/3000	0-3000A	CTA201PX5	CTA201P	CTA212PY42	CTA212P	CTA201PA	***	***	***	***

**For bidirectional calibration, use direct model CTA and CTL with "Y122" suffix.

***Not available in RMS models, consult factory for other models.

NOTE: Use direct models for true DC and use RMS models for AC, or AC with DC component or chopped waveform.

CTL Options

Extended Temp. Range..... (-40°C to +65°C)..... Option "-T"

Split-Core (Sensor Sizes C, D, E)..... Option "-S"

**Bidirectional Operation Option "-Y122"

CTA Options

230 Vac Instrument Power230Vac..... Option "-22"

DC Instrument Power9-18Vdc..... Option "-12"

18-36Vdc Option "-24"

36-60Vdc Option "-48"

CTA2124-12-20mA Output..... Option "Y42"

ORDERING INFORMATION

EXAMPLE: 200A split core current transducer requiring 200mA excitation, with output of 100mV.

CTL-201S/200

TO ORDER WITH MODEL CTA SIGNAL CONDITIONER

Locate transducer model number in first column.

Specify model CTA signal conditioner model number based on required analog output.

The transducer and signal conditioner must be ordered as separate items although supplied as a calibrated set.

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MODEL CTL

FREQUENCY RANGE DC TO 1000 HERTZ

FEATURES AND APPLICATIONS

- 2200 Volt line-to-output isolation.**
- DC to 1000 Hertz response.
- All models are split core configurations.
- Response time less than 100 microseconds.
- Output is proportional in **direction and magnitude** to the current flow through the window.
- Overload capability to **50 times rating** (at 60Hz).

- Stability maintained during severe vibration.
- Easy installation.
- Replaces shunts.
- No insertion loss.
- For use with model CTA signal conditioners.
- Ideal for use on AC systems with dc components and/or chopped waveforms.

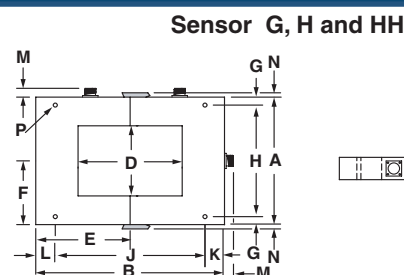
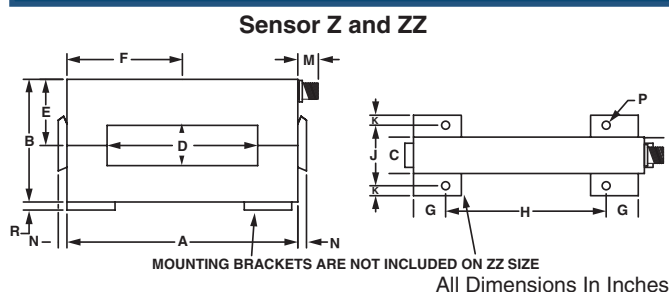


RECTANGULAR WINDOW (BUS BAR) MODELS

PEAK CURRENT (A)	EXCITATION (NOMINAL) (mA)	OUTPUT (NOMINAL) (mV)	TEMPERATURE		RESISTANCE (Ω)		LINEARITY & ACCURACY	SENSOR SIZE	CATALOG NUMBER
			EFFEECTS	RANGE (C°)	INPUT	OUTPUT			
500	200	50	1%	-10C° to +40C°	23±5	25±15	1%	Z	CTL-202HS/500
1000	200	100	1%	-10C° to +40C°	23±5	25±15	1%	Z	CTL-202HS/1000
1500	200	150	1%	-10C° to +40C°	23±5	25±15	1%	Z	CTL-202HS/1500
2000	200	200	1%	-10C° to +40C°	23±5	25±15	1%	Z	CTL-202HS/2000
2000	200	60	1%	-10C° to +40C°	23±5	25±15	1%	Z	CTL-502HS/2000
2500	200	75	1%	-10C° to +40C°	23±5	25±15	1%	Z	CTL-502HS/2500
3000	200	90	1%	-10C° to +40C°	23±5	25±15	1%	Z	CTL-502HS/3000
4000	200	120	1%	-10C° to +40C°	23±5	25±15	1%	Z	CTL-502HS/4000
5000	200	150	1%	-10C° to +40C°	23±5	25±15	1%	Z	CTL-502HS/5000
1000	200	100	1%	-10C° to +40C°	23±5	25±15	1%	ZZ	CTL-202ZZS/1000*
1500	200	150	1%	-10C° to +40C°	23±5	25±15	1%	ZZ	CTL-202ZZS/1500*
2000	200	200	1%	-10C° to +40C°	23±5	25±15	1%	ZZ	CTL-202ZZS/2000*
2500	200	125	1%	-10C° to +40C°	23±5	25±15	1%	ZZ	CTL-302ZZS/2500*
3000	200	150	1%	-10C° to +40C°	23±5	25±15	1%	ZZ	CTL-302ZZS/3000*
2500	200	75	1%	-10C° to +40C°	23±5	25±15	1%	G	CTL-502S/2500
3000	200	90	1%	-10C° to +40C°	23±5	25±15	1%	G	CTL-502S/3000
4000	200	120	1%	-10C° to +40C°	23±5	25±15	1%	G	CTL-502S/4000
5000	200	150	1%	-10C° to +40C°	23±5	25±15	1%	G	CTL-502S/5000
5000	200	50	1%	-10C° to +40C°	23±5	25±15	1%	H	CTL-103S/5000
6000	200	60	1%	-10C° to +40C°	12±5	32±10	1%	H	CTL-103S/6000
7000	200	70	1%	-10C° to +40C°	12±5	32±10	1%	H	CTL-103S/7000
8000	200	80	1%	-10C° to +40C°	12±5	32±10	1%	H	CTL-103S/8000
9000	200	90	1%	-10C° to +40C°	12±5	32±10	1%	H	CTL-103S/9000
10000	200	100	1%	-10C° to +40C°	12±5	32±10	1%	H	CTL-103S/10000
12000	200	60	1%	-10C° to +40C°	12±5	32±10	2%	H	CTL-203S/12000
15000	200	75	1%	-10C° to +40C°	12±5	32±10	2%	H	CTL-203S/15000
18000	200	90	1%	-10C° to +40C°	12±5	32±10	2%	H	CTL-203S/18000
20000	200	100	1%	-10C° to +40C°	12±5	32±10	2%	H	CTL-203S/20000
25000	200	85	1%	-10C° to +40C°	12±5	32±10	2%	HH	CTL-303S/25000
30000	200	100	1%	-10C° to +40C°	12±5	32±10	2%	HH	CTL-303S/30000
35000	200	90	1%	-10C° to +40C°	12±5	32±10	2%	HH	CTL-403S/35000
40000	200	100	1%	-10C° to +40C°	12±5	32±10	2%	HH	CTL-403S/40000

NOTE: See next page for CTL Options

RECTANGULAR MODEL CTL DIMENSIONS



SENS. SIZE	SENSOR DIMENSIONS															WT. LBS.
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	
G	7 3/4	12	1 3/4	3 x 6 1/2	6	3 7/8	5/8	6 1/2	10 3/4	5/8	5/8	5/8	5/16	5/16	N/A	12.3
H	10	13 3/4	1 3/4	5 1/2 X 8	6 1/2	5	5/8	8 3/4	11 1/2	1 1/2	3/4	5/8	5/16	5/16	N/A	13
HH	21	21	2	13 X 13	10 1/2	10 1/2	1 1/2	18	18	1 1/2	1 1/2	5/8	11/16	3/8	N/A	44
Z	7 3/16	3 15/16	1 5/16	1 1/4 X 4 1/2	2 9/64	3 1/2	1	5	1 7/8	5/16	N/A	3/8	5/16	3/16	1/4	2.8
ZZ	7 3/16	5 1/2	1 1/8	2 7/16 X 4 1/2	2 1/2	3 1/2	N/A	N/A	N/A	N/A	N/A	3/8	5/16	N/A	N/A	3.5

CABLE LENGTHS

All units are supplied with a detachable 8' cable.

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CURRENT TRANSDUCERS

SIGNAL CONDITIONERS

MODEL CTA

FOR USE WITH MODEL CTL CURRENT TRANSDUCERS



DIRECT MEASUREMENT MODELS

- Provide output which is directly proportional to amplitude of AC and/or dc input waveform.

RMS MODELS

- Provide output which is proportional to RMS value of AC and/or dc input waveform.

MODEL CTL CURRENT TRANSDUCER	TRANSDUCER INPUT CURRENT RANGE	DIRECT MODELS OUTPUT PROPORTIONAL TO AC/DC INPUT					RMS MODELS OUTPUT PROPORTIONAL TO RMS OF AC/DC INPUT			
		STANDARD AC/DC OUTPUTS					STANDARD DC OUTPUTS			
		±/-5V**	±/-10V**	4-12-20mA**	4-20mA	±/-1mA**	0-5Vdc	0-10Vdc	4-20mA	0-1mA
CTL-202HS/500	0-500A	CTA201X5	CTA201	CTA212Y42	CTA212	CTA201A	CTA213X5	CTA213	CTA215	CTA214
CTL-202HS/1000	0-1000A	CTA201PX5	CTA201P	CTA212PY42	CTA212P	CTA201PA	CTA213PX5	CTA213P	CTA215P	CTA214P
CTL-202HS/1500	0-1500A	CTA201KX5	CTA201K	CTA212KY42	CTA212K	CTA201KA	CTA213KX5	CTA213K	CTA215K	CTA214K
CTL-202HS/2000	0-2000A	CTA201LX5	CTA201L	CTA212LY42	CTA212L	CTA201LA	***	***	***	***
CTL-502HS/2000	0-2000A	***	***	***	***	***	CTA213GX5	CTA213G	CTA215G	CTA214G
CTL-502HS/2500	0-2500A	CTA201HX5	CTA201H	CTA212HY42	CTA212H	CTA201HA	CTA213HX5	CTA213H	CTA215H	CTA214H
CTL-502HS/3000	0-3000A	CTA201WX5	CTA201W	CTA212WY42	CTA212W	CTA201WA	CTA213WX5	CTA213W	CTA215W	CTA214W
CTL-502HS/4000	0-4000A	CTA201NX5	CTA201N	CTA212NY42	CTA212N	CTA201NA	***	***	***	***
CTL-502HS/5000	0-5000A	CTA201KX5	CTA201K	CTA212KY42	CTA212K	CTA201KA	***	***	***	***
CTL-202ZS/1000	0-1000A	CTA201PX5	CTA201P	CTA212PY42	CTA212P	CTA201PA	CTA213PX5	CTA213P	CTA215P	CTA214P
CTL-202ZS/1500	0-1500A	CTA201KX5	CTA201K	CTA212KY42	CTA212K	CTA201KA	CTA213KX5	CTA213K	CTA215K	CTA214K
CTL-202ZS/2000	0-2000A	CTA201LX5	CTA201L	CTA212LY42	CTA212L	CTA201LA	***	***	***	***
CTL-302ZS/2500	0-2500A	CTA201NX5	CTA201N	CTA212NY42	CTA212N	CTA201NA	***	***	***	***
CTL-302ZS/3000	0-3000A	CTA201KX5	CTA201K	CTA212KY42	CTA212K	CTA201KA	***	***	***	***
CTL-502S/2500	0-2500A	CTA201HX5	CTA201H	CTA212HY42	CTA212H	CTA201HA	CTA213HX5	CTA213H	CTA215H	CTA214H
CTL-502S/3000	0-3000A	CTA201WX5	CTA201W	CTA212WY42	CTA212W	CTA201WA	CTA213WX5	CTA213W	CTA215W	CTA214W
CTL-502S/4000	0-4000A	CTA201NX5	CTA201N	CTA212NY42	CTA212N	CTA201NA	***	***	***	***
CTL-502S/5000	0-5000A	CTA201KX5	CTA201K	CTA212KY42	CTA212K	CTA201KA	***	***	***	***
CTL-103S/5000	0-5000A	CTA201X5	CTA201	CTA212Y42	CTA212	CTA201A	CTA213X5	CTA213	CTA215	CTA214
CTL-103S/6000	0-6000A	CTA201GX5	CTA201G	CTA212GY42	CTA212G	CTA201GA	CTA213GX5	CTA213G	CTA215G	CTA214G
CTL-103S/7000	0-7000A	CTA201HX5	CTA201H	CTA212HY42	CTA212H	CTA201HA	CTA213HX5	CTA213H	CTA215H	CTA214H
CTL-103S/8000	0-8000A	CTA201JX5	CTA201J	CTA212JY42	CTA212J	CTA201JA	CTA213JX5	CTA213J	CTA215J	CTA214J
CTL-103S/9000	0-9000A	CTA201WX5	CTA201W	CTA212WY42	CTA212W	CTA201WA	***	***	***	***
CTL-103S/10000	0-10000A	CTA201PX5	CTA201P	CTA212PY42	CTA212P	CTA201PA	***	***	***	***
CTL-203S/12000	0-12000A	CTA201GX5	CTA201G	CTA212GY42	CTA212G	CTA201GA	CTA213GX5	CTA213G	CTA215G	CTA214G
CTL-203S/15000	0-15000A	CTA201HX5	CTA201H	CTA212HY42	CTA212H	CTA201HA	***	***	***	***
CTL-203S/18000	0-18000A	CTA201WX5	CTA201W	CTA212WY42	CTA212W	CTA201WA	***	***	***	***
CTL-203S/20000	0-20000A	CTA201PX5	CTA201P	CTA212PY42	CTA212P	CTA201PA	***	***	***	***
CTL303S/25000	0-25000A	CTA201JX5	CTA201J	CTA212JY42	CTA212J	CTA201JA	***	***	***	***
CTL303S/30000	0-30000A	CTA201PX5	CTA201P	CTA212PY42	CTA212P	CTA201PA	***	***	***	***
CTL403S/35000	0-35000A	CTA201WX5	CTA201W	CTA212WY42	CTA212W	CTA201WA	***	***	***	***
CTL403S/40000	0-40000A	CTA201PX5	CTA201P	CTA212PY42	CTA212P	CTA201PA	***	***	***	***

**For bidirectional calibration, use direct model CTA and CTL with "Y122" suffix.

***Not available in RMS models, consult factory for other models.

****Not available in direct models.

NOTE: Use direct models for true DC and use RMS models for AC, or AC with DC component or chopped waveform.

CTL Options

Extended Temp. Range..... (-40°C to +65°C)..... Option "-T"

**Bidirectional operation Option "-Y122"

CTA Options

230 Vac Instrument Power 230Vac..... Option "-22"

DC Instrument Power 9-18Vdc Option "-12"

18-36Vdc Option "-24"

36-60Vdc Option "-48"

4-12-20mA Output Option "Y42"

ORDERING INFORMATION

EXAMPLE: 2000A split core current transducer requiring 200mA excitation, with output of 200mV.

CTL-202HS/2000

TO ORDER WITH MODEL CTA SIGNAL CONDITIONER

Locate transducer model number in first column.

Specify model CTA signal conditioner model number based on required analog output.

The transducer and signal conditioner must be ordered as separate items although supplied as a calibrated set.

FLEX-CORE®

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FAX # (614) 876-8538

CURRENT TRANSDUCERS

SIGNAL CONDITIONERS

MODEL CTL/CTA

MODEL CTA SPECIFICATIONS

INPUT

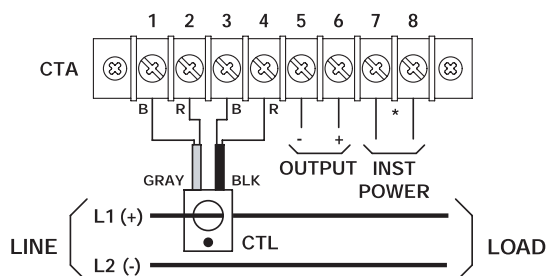
Standard	0-50mV
Option "R"	0-35mV
Option "F"	0-40mV
Option "G"	0-60mV
Option "H"	0-75mV
Option "J"	0-80mV
Frequency Range	dc - 5000Hz
Instrument Power	115Vac, 50 - 400Hz, 2VA
Option "-22"	230Vac, 50/60Hz, $\pm 15\%$
DC Instrument Power	
Option "-12"	9-18Vdc
Option "-24"	18-36Vdc
Option "-48"	36-60Vdc

OUTPUT

LINEARITY	+ 0.1% F.S.
Output Ripple	<0.25% F.S.
Field Adjustable Gain	25%
Output Loading (Ω)	
1mA	0-10K
10V, 5V	2K min.
4-20mA	0-500
Response	(90%)
Direct models	40 μ s
RMS Models	200ms
Temperature Effect.....(0°C to +70°C)	$\pm 0.005\%/^{\circ}\text{C}$
Weight	1.4 Lbs.

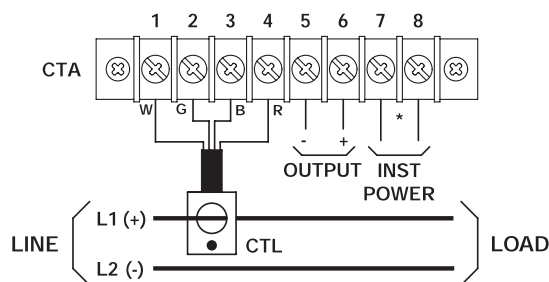
CONNECTION DIAGRAMS

CTL MODELS WITH TWO CABLES



GRAY CABLE	BLACK CABLE
Black..... sensor output signal (-)	Black.....sensor excitation (-)
Red..... sensor output signal (+)	Red.....sensor excitation (+)
*DC Inst. Pwr. positive on Term. 8	All shields tied to terminal 3

CTL MODELS WITH ONE CABLE



White.....sensor output signal (-)
Green.....sensor output signal (+)
Black..... sensor excitation (-)
Red..... sensor excitation (+)
*DC Inst. Pwr. positive on Term. 8
All shields tied to terminal 3

OUTPUT CABLE DESIGNATIONS

CAUTION: Connect CTL to CTA terminals 1, 2, 3, & 4 before applying instrument power to CTA terminals 7 & 8 (+)

SENSOR SIZE A, C, D (SOLID CORE)

CABLE	WIRE	SIGNAL
GRAY	BLACK	OUTPUT (-)
GRAY	RED	OUTPUT (+)
SHIELD	SHIELD	SHIELD
BLACK	BLACK	EXCITATION (-)
BLACK	RED	EXCITATION (+)

Red dot side of CTL must face positive supply.

SENSOR SIZE E, EE, F, G, H, HH

PINS	COLOR	SIGNAL
A	WHITE	OUTPUT (-)
B	GREEN	OUTPUT (+)
C	BLACK	EXCITATION (-)
D	RED	EXCITATION (+)
E	SHIELD	SHIELD

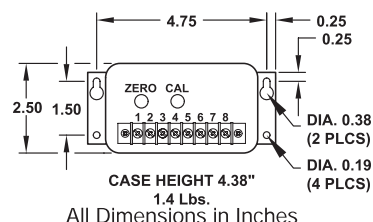
Red dot side of CTL must face positive supply.

SENSOR SIZE D (SPLIT CORE), Z, & ZZ

PINS	COLOR	SIGNAL
1	WHITE	OUTPUT (-)
2	GREEN	OUTPUT (+)
4	SHIELD	SHIELD
6	BLACK	EXCITATION (-)
8	RED	EXCITATION (+)

Red dot side of CTL must face positive supply.

CTA CASE DIMENSIONS



All Dimensions in Inches

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