Weschler AC Split Core Current Transformers

Model 600 – Window 2 x 5.5"
Model 601 – Window 4.5 x 4.5"
Model 604 – Window 1.42 x 1.53"

ORDERING INFORMATION - MODEL 600

Order Code	Current Ratio	ANSI Metering Class @ 60 Hz B0.1	B0.2	B0.5	VA @ 1% Class
600-401	400:5	2.4	4.8		1.5
600-501	500:5	2.4	4.8		2.0
600-601	600:5	2.4	2.4		2.5
600-801	800:5	1.2	1.2	2.4	5.0
600-102	1000:5	1.2	1.2	2.4	7.5
600-122	1200:5	0.6	1.2	1.2	15.0
600-152	1500:5	0.6	0.6	1.2	20.0
600-162	1600:5	0.6	0.6	1.2	20.0
600-202	2000:5	0.6	0.6	0.6	30.0

ORDERING INFORMATION - MODEL 601

Order Code	Current Ratio	ANSI Metering Class @ 60 Hz B0.1	B0.2	B0.5	VA @ 1% Class
601-401	400:5	4.8	–	–	1.0
601-501	500:5	4.8	4.8	–	1.5
601-601	600:5	2.4	4.8	–	2.0
601-801	800:5	1.2	2.4	4.8	2.5
601-102	1000:5	1.2	1.2	4.8	5.0
601-122	1200:5	1.2	1.2	2.4	10.0
601-152	1500:5	1.2	1.2	1.2	15.0
601-162	1600:5	1.2	1.2	1.2	15.0
601-202	2000:5	0.6	0.6	1.2	20.0

ORDERING INFORMATION - MODEL 604

Order Code	Current Ratio	Burden VA	Accuracy
604-101	100:5	1	±1.5%
604-1250	125:5	1.5	±1.5%
604-151	150:5	2	±1.5%
604-1750	175:5	2	±1.5%
604-201	200:5	2	±1.5%
604-251	250:5	2	±1.5%
604-301	300:5	2	±1.5%
604-401	400:5	2.5	±1.5%
604-1000T	100.0:1	–	±0.5%

Flexcore Split Core CT NEW

- Seven Opening Sizes
- 1 or 5 Amp Secondaries
- 0.333V or 1.0V Secondaries
- Indoor or Outdoor Use

Flexible split-core opens with a twisting motion. Silicone rubber encapsulation protects against moisture, dirt, oil and corona. Remains flexible from -45° to +200°C.

FC

SPECIFICATIONS

Insulation Level:	0.6kV, BIL 10kV Full Wave
Frequency:	50-400Hz
Thermal factor:	1.25 at 30°C, 1.0 at 55°C
Accuracy:	
200:5 thru 300:5	4%
400:5 thru 500:5	3%
600:5 thru 800:5	2%
1000:5 thru 6000:5	1%
Leads:	12 feet long with spade connectors, Black wire = X1, White wire = X2

ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.
Order Example: FC-1000/5-8

A – B – C

A	Model	
	FC	Split core CT
	FCL	UL Listed (Indoor use only) File E186575
B	Ratio	
	See chart for available sizes	
C	Inside Diameter (inches)	
	4, 6, 8, 11, 18, R, R411	
	(R= 2-3/4 x 6-5/8, R411= 4 x 11)	

AVAILABLE SIZES

Ratio	4"	6"	8"	11"	18"	R	R411	Burden
200/5	X	–	–	–	–	–	–	2VA
250/5	X	–	–	–	–	–	–	2VA
300/5	X	X	–	–	–	–	–	2VA
400/5	X	X	–	–	–	X	–	2VA
500/5	X	X	–	–	–	X	–	3VA
600/5	X	X	–	–	–	X	–	5VA
800/5	X	X	–	–	–	X	–	5VA
1000/5	X	X	X	–	–	X	–	5VA
1200/5	X	X	X	–	–	X	–	5VA
1500/5	X	X	X	X	–	X	X	15VA
1600/5	X	X	X	X	–	X	X	15VA
2000/5	X	X	X	X	X	X	X	25VA
2400/5	X	X	X	X	X	X	X	30VA
2500/5	X	X	X	X	X	X	X	35VA
3000/5	X	X	X	X	X	X	X	45VA
3500/5	X	X	X	X	X	X	X	45VA
4000/5	X	X	X	X	X	–	X	45VA
5000/5	X	–	X	X	X	–	X	45VA
6000/5	X	–	–	X	X	–	X	45VA

Weschler AC Current Transformers

- Solid Core
- 0.6kV Insulation Class, BIL 10kV Full Wave
- 50-400 HB
- 8-32 Studs or 24" Leads

AL & RL Case Style

SFT Case Style

SHT Case Style

RBT Case Style

RBL Case Style

2DRL Case Style

RT Case Style

Models 2SFT and 2SHT—Window Dia. 1.13"
Model 2AL—Window Dia. 1.15"
Model 2DRL—Window Dia. 1"

ORDERING INFORMATION

2SFT, 2SHT, 2AL, 2DRL

Catalog #	Current Ratio	Model 2 Accuracy @60 Hz	Model 2 Burden VA@60 Hz	Model 2DRL Accuracy @60 Hz	Model 2DRL Burden VA@60 Hz
2**-500	50:5	±3%	2.0	±2%	1.5
2**-600	60:5	±2%	2.0	±1%	2.5
2**-750	75:5	±2%	2.0	±1%	3.5
2**-800	80:5	±2%	2.0	±1%	4.0
2**-101	100:5	±1%	2.0	±1%	5.0
2**-121	120:5	±1%	2.5	±1%	5.0
2**-1250	125:5	±1%	2.5	±1%	5.0
2**-151	150:5	±1%	4.0	±1%	8.0
2**-201	200:5	±1%	4.0	±1%	10.0
2**-251	250:5	±1%	6.0	±1%	12.5
2**-301	300:5	±1%	8.0	±1%	15.0

Model 7—Window Dia. 2.50"

ORDERING INFORMATION

Model 7SFT, 7SHT, 7RT, 7RBT, 7RL, 7RBL

Catalog #	Current Ratio	Accuracy at 60 Hz	Burden at 60 Hz
7**-101	100:5	±2%	2.5
7**-151	150:5	±1%	5.0
7**-201	200:5	±1%	5.0
7**-251	250:5	±1%	5.0
7**-301	300:5	±1%	12.5
7**-401	400:5	±1%	15.0
7**-501	500:5	±1%	25.0
7**-601	600:5	±1%	30.0
7**-751	750:5	±1%	30.0
7**-801	800:5	±1%	35.0
7**-102	1000:5	±1%	30.0
7**-122	1200:5	±1%	35.0
7**-152	1500:5	±1%	40.0
7**-162	1600:5	±1%	45.0

Model 5—Window Dia. 1.56"

ORDERING INFORMATION

Model 5SFT, 5SHT, 5RT, 5RBT, 5RL, 5RBL

Catalog #	Current Ratio	Accuracy @ 60 Hz	Burden VA @ 60 Hz
5**-500	50:5	±2%	1.0
5**-750	75:5	±2%	1.5
5**-101	100:5	±2%	2.0
5**-151	150:5	±1%	5.0
5**-201	200:5	±1%	5.0
5**-251	250:5	±1%	10.0
5**-301	300:5	±1%	12.5
5**-401	400:5	±1%	12.5
5**-501	500:5	±1%	20.0
5**-601	600:5	±1%	25.0
5**-751	750:5	±1%	25.0
5**-801	800:5	±1%	25.0
5**-102	1000:5	±1%	25.0
5**-122	1200:5	±1%	30.0

Model 76—Window Dia. 3.00"

ORDERING INFORMATION

Model 76SFT, 76SHT, 76RT, 76RBT, 76RL, 76RBL

Catalog #	Current Ratio	Accuracy at 60 Hz	Burden at 60 Hz
76**-201	200:5	±1%	5.0
76**-251	250:5	±1%	5.0
76**-301	300:5	±1%	6.0
76**-401	400:5	±1%	10.0
76**-501	500:5	±1%	10.0
76**-601	600:5	±1%	10.0
76**-751	750:5	±1%	10.0
76**-801	800:5	±1%	12.5
76**-102	1000:5	±1%	10.0
76**-122	1200:5	±1%	10.0
76**-152	1500:5	±1%	12.5
76**-162	1600:5	±1%	12.5
76**-202	2000:5	±1%	15.0

NOTE: **Insert case style when ordering

See CT Application Note in Technical Reference Section.

Weschler AC Current Transformers

3P ▶

Model 8 — Window Dia. 3.25"

ORDERING INFORMATION

Model 8SHT, 8RL

Catalog #	Current Ratio Amperes	V.A. for ±1% Class	ANSI Metering Class @ 60 Hz B0.1	B0.2	B0.5	B0.9	B1.8
8**-201	200:5	5.0	1.2	1.2	–	–	–
8**-251	250:5	7.5	0.6	1.2	2.4	–	–
8**-301	300:5	15.0	0.6	0.6	1.2	2.4	–
8**-401	400:5	25.0	0.3	0.6	1.2	1.2	–
8**-501	500:5	35.0	0.3	0.3	0.6	1.2	–
8**-601	600:5	50.0	0.3	0.3	0.6	1.2	2.4
8**-751	750:5	50.0	0.3	0.3	0.3	0.6	1.2
8**-801	800:5	60.0	0.3	0.3	0.3	0.6	1.2
8**-102	1000:5	75.0	0.3	0.3	0.3	0.6	1.2
8**-122	1200:5	75.0	0.3	0.3	0.3	0.6	0.6
8**-152	1500:5	90.0	0.3	0.3	0.3	0.6	0.6
8**-162	1600:5	100.0	0.3	0.3	0.3	0.6	0.6
8**-202	2000:5	120.0	0.3	0.3	0.3	0.3	0.3
8**-252	2500:5	50.0	0.3	0.3	0.3	0.3	–
8**-302	3000:5	60.0	0.3	0.3	0.3	0.3	–
8**-352	3200:5	70.0	0.3	0.3	0.3	0.3	–
8**-402	4000:5	80.0	0.3	0.3	0.3	0.3	–

Model 170 — Window Dia. 4.25"

ORDERING INFORMATION

Model 170SHT, 170RL

Catalog #	Current Ratio Amperes	V.A. for ±1% Class	ANSI Metering Class @ 60 Hz B0.1	B0.2	B0.5	B0.9	B1.8
170**-201	200:5	5.0	1.2	1.2	–	–	–
170**-251	250:5	5.0	1.2	1.2	–	–	–
170**-301	300:5	12.5	0.6	0.6	1.2	2.4	–
170**-401	400:5	25.0	0.6	0.6	1.2	1.2	2.4
170**-501	500:5	25.0	0.3	0.3	0.6	1.2	2.4
170**-601	600:5	25.0	0.3	0.3	0.6	0.6	1.2
170**-751	750:5	40.0	0.3	0.3	0.3	0.3	0.6
170**-801	800:5	50.0	0.3	0.3	0.3	0.3	0.6
170**-102	1000:5	75.0	0.3	0.3	0.3	0.3	0.6
170**-122	1200:5	100.0	0.3	0.3	0.3	0.3	0.6
170**-152	1500:5	80.0	0.3	0.3	0.3	0.6	0.6
170**-162	1600:5	90.0	0.3	0.3	0.3	0.6	0.6
170**-202	2000:5	105.0	0.3	0.3	0.3	0.3	0.3
170**-252	2500:5	130.0	0.3	0.3	0.3	0.3	0.3
170**-302	3000:5	165.0	0.3	0.3	0.3	0.3	0.3
170**-352	3200:5	190.0	0.3	0.3	0.3	0.3	0.3
170**-402	4000:5	215.0	0.3	0.3	0.3	0.3	0.3

NOTE: **Insert case style when ordering

ORDERING INFORMATION

Model 3P3 — Window Dia. 0.97"

Catalog #	Current Ratio	Accuracy @ 60 Hz	Burden VA@60Hz
3P3-500	50:5	±3%	2.0
3P3-600	60:5	±2%	2.0
3P3-750	75:5	±2%	2.0
3P3-800	80:5	±2%	2.0
3P3-101	100:5	±1%	2.0
3P3-121	120:5	±1%	2.5
3P3-1250	125:5	±1%	2.5
3P3-151	150:5	±1%	4.0
3P3-201	200:5	±1%	5.0
3P3-251	250:5	±1%	7.5
3P3-301	300:5	±1%	10.0

ORDERING INFORMATION

Model 3P4 — Window Dia. 1.44"

Catalog #	Current Ratio	ANSI Metering Class @ 60 Hz B0.1	B0.2	B0.5	B0.9	B1.8
3P4-500	50:5	2.4	-	-	-	-
3P4-101	100:5	1.2	2.4	-	-	-
3P4-151	150:5	0.6	1.2	2.4	-	-
3P4-201	200:5	0.3	0.6	1.2	2.4	-
3P4-251	250:5	0.3	0.3	0.6	1.2	2.4
3P4-301	300:5	0.3	0.3	0.6	0.6	1.2
3P4-401	400:5	0.3	0.3	0.6	0.6	1.2
3P4-501	500:5	0.3	0.3	0.3	0.6	0.6
3P4-601	600:5	0.3	0.3	0.3	0.6	0.6
3P4-751	750:5	0.3	0.3	0.3	0.3	0.6
3P4-801	800:5	0.3	0.3	0.3	0.3	0.6
3P4-102	1000:5	0.3	0.3	0.3	0.3	0.3

Model 180/181 — Window Dia. 2.5"

ORDERING INFORMATION

Model 180RL, 180SHT/181RL, 181SHT

Catalog #	Current Ratio Amperes	V.A. for ±1% Class	ANSI Metering Class @ 60 Hz B0.1	B0.2	B0.5	B0.9	B1.8
180**-101	100:5	2.5	1.2	2.4	–	–	–
180**-151	150:5	5.0	0.6	1.2	–	–	–
180**-201	200:5	12.5	0.6	0.6	1.2	–	–
180**-251	250:5	12.5	0.3	0.3	1.2	–	–
180**-301	300:5	25.0	0.3	0.3	0.6	1.2	2.4
180**-401	400:5	50.0	0.3	0.3	0.3	0.6	1.2
180**-501	500:5	50.0	0.3	0.3	0.3	0.6	1.29
180**-601	600:5	50.0	0.3	0.3	0.3	0.6	0.6
180**-751	750:5	50.0	0.3	0.3	0.3	0.3	0.6
180**-801	800:5	75.0	0.3	0.3	0.3	0.3	0.3
180**-102	1000:5	100.0	0.3	0.3	0.3	0.6	0.6
180**-122	1200:5	125.0	0.3	0.3	0.3	0.6	0.6
180**-152	1500:5	160.0	0.3	0.3	0.3	0.3	0.3
180**-162	1600:5	175.0	0.3	0.3	0.3	0.3	0.3

Instrument Transformer
AC Current Transducers

- Large Window Area
- 4-20mA DC Output
- 0.5% FS accuracy
- 120VAC or 24VDC Power

The PCL is a 4 terminal device with separate connections for power and load. The PCM is a two terminal device. 24V is applied between the + terminal and ground. The output load may be inserted in either the – line for negative ground systems or the + line for positive ground systems.

SPECIFICATIONS

Output Signal:	Average responding, RMS calibrated	
Linear Range:	0-120% of rated current (typical)	
Frequency:	50/60Hz	
Operating Temperature:	-30 to 60°C	
Insulation Level:	600V, 10kV BIL full wave	
Maximum Output:	30mA DC	
Output Ripple:	1% max peak	
Supply Voltage:	PCL 120VAC ±10% PCM 24VDC ±10%	
Output Load:	PCL <1000 ohms PCM <600 ohms	
Size (LxWxH, inches)		Window dia
PCL-5 thru 75	2.7 x 2.4 x 4.5	0.94"
PCL-100 & up	4.5 x 4.7 x 4.9	2.13"
PCM-5 thru 20	2.7 x 2.4 x 2.75	0.93"
PCM-30 & up	4.5 x 4.7 x 4.9	1.25"

ORDERING INFORMATION

Model	Rated Current	Connections
PCL-5	5A	#8 screws
PCL-20	10A, 15A, 20A*	
PCL-75	25A, 50A, 75A*	
PCL-100	100A	#8 studs
PCL-150	150A	
PCL-200	200A	
PCL-300	300A	
PCL-400	400A	
PCL-600	600A	
PCM-5	5A	#10 screws
PCM-10	10A	
PCM-20	20A	
PCM-30	30A	
PCM-50	50A	
PCM-75	75A	
PCM-100	100A	
PCM-150	150A	
PCM-200	200A	
PCM-300	300A	#8 studs

*Switch selectable

Weschler
AC Voltage Transformers

460

ORDERING INFORMATION - MODEL 460

Order Code	Voltage Rating	Turns Ratio
460-069	69.4:120	0.58:1
460-120	120:120	1:1
460-208	208:120	1.73:1
460-240	240:120	2:1
460-288	288:120	2.4:1
460-300	300:120	2.5:1
460-480	480:120	4:1
460-600	600:120	5:1
460-380	380:120	3.15:1 for 50 Hz

467

ORDERING INFORMATION - MODEL 467

Order Code	Voltage Rating	Turns Radio
467-069	69.0:120	0.58:1
467-120	120:120	1:1
467-208	208:120	1.73:1
467-240	240:120	2:1
467-288	288:120	2.4:1
467-300	300:120	2.5:1
467-480	480:120	4:1
467-600	600:120	5:1
467-380	380:120	3.17:1 for 50 Hz

Weschler Transducers

CLD001J

AC & DC Transducers—Metal Case

- Accuracy: ±0.2% or 0.5%
- Wide Variety of Input and Output Options
- Rugged Metal Can Construction
- 5 kV Transient Protection
- Sizes:
  - Can size 1: 3.976" L x 2.012" W x 4.096" H
  - Can size 2: 5.236" L x 3.769" W x 4.717" H

AC CURRENT TRANSDUCER

Transducer Type	Input	Output	Aux. Power	Can Size	Part # ±0.5%	Part # ±0.2%
Single (average sensing)	0–1 AAC	0–1 mADC	None	1	CTA100JA	CTA100ZA
Single (average sensing)	0–1 AAC	4 mA–20 mADC	120 VAC	2	CTD100JA	CTD100ZA
Single (TRMS sensing)	0–1 AAC	0–1 mADC	120 VAC	2	CTA100JT	CTA100ZT
Single (TRMS sensing)	0–1 AAC	4 mA–20 mADC	120 VAC	2	CTD100JT	CTD100ZT
Single (average sensing)	0–5 AAC	0–1 mADC	None	1	CTA500JA	CTA500ZA
Single (average sensing)	0–5 AAC	4 mA–20 mADC	120 VAC	2	CTD500JA	CTD500ZA
Triple (average sensing)	0–5 AAC	0–1 mADC	None	2	CTA503JA	CTA503ZA
Single (TRMS sensing)	0–5 AAC	0–1 mADC	120 VAC	2	CTA500JT	CTA500ZT
Single (TRMS sensing)	0–5 AAC	4 mA–20 mADC	120 VAC	2	CTD500JT	CTD500ZT

AC VOLTAGE TRANSDUCER

Transducer Type	Input	Output	Aux. Power	Can Size	Part # ±0.5%	Part # ±0.2%
Single (average sensing)	0–150 VAC	0–1 mADC	None	1	ETA150JA	ETA150ZA
Single (average sensing)	0–300 VAC	0–1 mADC	None	1	ETA300JA	ETA300ZA
Single (average sensing)	0–600 VAC	0–1 mADC	None	1	ETA600JA	ETA600ZA
Single (average sensing)	0–150 VAC	4 mA–20 mADC	120 VAC	2	ETD150JA	ETD150ZA
Single (average sensing)	0–300 VAC	4 mA–20 mADC	120 VAC	2	ETD300JA	ETD300ZA
Single (average sensing)	0–600 VAC	4 mA–20 mADC	120 VAC	2	ETD600JA	ETD600ZA
3 Inputs (average sensing)	0–150 VAC	0–1 mADC	None	2	ETA153JA	ETA153ZA
3 Inputs (average sensing)	0–300 VAC	0–1 mADC	None	2	ETA303JA	ETA303ZA
Single (TRMS sensing)	0–150 VAC	0–1 mADC	120 VAC	2	ETA150JT	ETA150ZT
Single (TRMS sensing)	0–300 VAC	0–1 mADC	120 VAC	2	ETA300JT	ETA300ZT
Single (TRMS sensing)	0–150 VAC	4 mA–20 mADC	120 VAC	2	ETD150JT	ETD150ZT
Single (TRMS sensing)	0–300 VAC	4 mA–20 mADC	120 VAC	2	ETD300JT	ETD300ZT

AC FREQUENCY TRANSDUCER—CAN SIZE "2"

Frequency	Input	Output	Part # ±1.0%	Part # ±0.2%
45-55 Hz	120V	0.5-0-0.5 mADC	FQA050J	FQA050Z
45-65 Hz	120V	0.5-0-0.5 mADC	FQA055J	FQA055Z
55-65 Hz	120V	0.5-0-0.5 mADC	FQA060J	FQA060Z
375-425 Hz	120V	0.5-0-0.5 mADC	FQA400J	FQA400Z
45-55 Hz	120V	4-12-20 mADC	FQD050J	FQD050Z
45-65 Hz	120V	4-12-20 mADC	FQD055J	FQD055Z
55-65 Hz	120V	4-12-20 mADC	FQD060J	FQD060Z
375-425 Hz	120V	4-12-20 mADC	FQD400J	FQD400Z

Weschler Transducers

AC WATT TRANSDUCER—CAN SIZE "2"						
Connection	No. of Elements	Rating	Output	Aux. Power	Part # ±0.5%	Part # ±0.2%
1 ø 2-wire	1 element	120V/5A	0–1 mADC	None	WTB010J	WTB010Z
3 ø 3-wire	2 element	120V/5A	0–1 mADC	None	WTB020J	WTB020Z
3 ø 4-wire	2 1/2 element	120V/5A	0–1 mADC	None	WTB025J	WTB025Z
3 ø 4-wire	3 element	120V/5A	0–1 mADC	None	WTB030J	WTB030Z
1 ø 2-wire	1 element	120V/5A	4 mA–20 mADC	None	WTD010J	WTD010Z
3 ø 3-wire	2 element	120V/5A	4 mA–20 mADC	None	WTD020J	WTD020Z
3 ø 4-wire	2 1/2 element	120V/5A	4 mA–20 mADC	None	WTD025J	WTD025Z
3 ø 4-wire	3 element	120V/5A	4 mA–20 mADC	None	WTD030J	WTD030Z

AC VAR TRANSDUCER—CAN SIZE "2"						
Connection	No. of Elements	Rating	Output	Aux. Power	Part # ±0.5%	Part # ±0.2%
1 ø 2-wire	1 element	120V/5A	0–1 mADC	None	VTB010J	VTB010Z
3 ø 3-wire	2 element	120V/5A	0–1 mADC	None	VTB020J	VTB020Z
3 ø 4-wire	2 1/2 element	120V/5A	0–1 mADC	None	VTB025J	VTB025Z
3 ø 4-wire	3 element	120V/5A	0–1 mADC	None	VTB030J	VTB030Z
1 ø 2-wire	1 element	120V/5A	4 mA–20 mADC	None	VTD010J	VTD010Z
3 ø 3-wire	2 element	120V/5A	4 mA–20 mADC	None	VTD020J	VTD020Z
3 ø 4-wire	2 1/2 element	120V/5A	4 mA–20 mADC	None	VTD025J	VTD025Z
3 ø 4-wire	3 element	120V/5A	4 mA–20 mADC	None	VTD030J	VTD030Z

AC WATT/VAR TRANSDUCER—CAN SIZE "2"					
Connection	No. of Elements	Rating	Output	Part # ±0.5%	Part # ±0.2%
1 ø 2-wire	1 element	120V/5A	0–1 mADC x 2	WVB010J	WVB010Z
3 ø 3-wire	2 element	120V/5A	0–1 mADC x 2	WVB020J	WVB020Z
3 ø 4-wire	2 1/2 element	120V/5A	0–1 mADC x 2	WVB025J	WVB025Z
3 ø 4-wire	3 element	120V/5A	0–1 mADC x 2	WVB030J	WVB030Z
1 ø 2-wire	1 element	120V/5A	4 mA–20 mADC x2	WVD010J	WVD010Z
3 ø 3-wire	2 element	120V/5A	4 mA–20 mADC x2	WVD020J	WVD020Z
3 ø 4-wire	2 1/2 element	120V/5A	4 mA–20 mADC x2	WVD025J	WVD025Z
3 ø 4-wire	3 element	120V/5A	4 mA–20 mADC x2	WVD030J	WVD030Z

AC POWER FACTOR—CAN SIZE "2"				
Connection	Lag—Lead	Output	Part # STD TC	Part # Low TC
1 ø 2-wire	-0.5 to 1.0 to +0.5	1–0–1 mADC	PFB010J	PFB010Z
3 ø 3-wire	-0.5 to 1.0 to +0.5	1–0–1 mADC	PFB020J	PFB020Z
3 ø 4-wire	-0.5 to 1.0 to +0.5	1–0–1 mADC	PFB030J	PFB030Z
1 ø 2-wire	-0.5 to 1.0 to +0.5	4 mA–12–20 mADC	PFF010J	PFF010Z
3 ø 3-wire	-0.5 to 1.0 to +0.5	4 mA–12–20 mADC	PFF020J	PFF020Z
3 ø 4-wire	-0.5 to 1.0 to +0.5	4 mA–12–20 mADC	PFF030J	PFF030Z

AC PHASE ANGLE—CAN SIZE "2"				
Connection	Phase Angle	Output	Part # ±2°	Part # ±1°
1 ø 2-wire	60°–0–60°	1–0–1 mADC	PAB010J	PAB010Z
3 ø 3-wire	60°–0–60°	1–0–1 mADC	PAB020J	PAB020Z
3 ø 4-wire	60°–0–60°	1–0–1 mADC	PAB030J	PAB030Z
1 ø 2-wire	60°–0–60°	4–12–20 mADC	PAF010J	PAF010Z
3 ø 3-wire	60°–0–60°	4–12–20 mADC	PAF020J	PAF020Z
3 ø 4-wire	60°–0–60°	4–12–20 mADC	PAF030J	PAF030Z

NOTE: Also available in plastic foot-mounted or DIN rail.
For ranges not listed, contact Weschler.

Weschler Transducers

SPECIFICATIONS - ALL AC MODELS

Output	±1mADC into 10kΩ max., 10VDC compliance
	4-20mADC into 750Ω max., 15VDC compliance
Response Time	<400ms (0-99% of output)
Output Ripple	0.5% of span, peak-to-peak max
Isolation	2500VAC input to output, power & case
	2000VAC aux. power to output & case
	500VAC output to case
External Span Adjustment	Zero: ±1% min; Span: ±2% min
Surge Withstand	IEEE472/ANSI C37.90.1-1989, JIS C111 (5kV, 1.2 x 50µs)
Insulation Resistance	>10MΩ@500VDC input/output/power/case
Operating Temperature	-20°C to 60°C; 0-90% RH non-condensing

AC CURRENT & VOLTAGE TRANSDUCERS

Current Models	
Input Burden	<0.2VA
Overrange	200% of rated input continuous;
	1000% of rated input for 5 sec
Voltage Models	
Input Burden	150VAC: <0.8VA; 300 VAC: <1.6VA (TRMS)
	150VAC: <1.8VA; 300 VAC: <3.6VA (Avg. Sensing)
Overrange	120% of rated input continuous
Temperature Drift	±250ppm/°C of span, 0.5% models
	±140ppm/°C of span, 0.2% models
Options (specify when ordering)	
50Hz, 50/60Hz or 400Hz operation (60Hz standard)	
230VAC, 24VDC* or 48VDC* Auxiliary Power (*average sensing models only)	

AC WATT & VAR TRANSDUCERS

Input Burden	Voltage: <0.5VA per element @120V
	Current: <0.2VA per element
Voltage Input Range	100-135VAC, input powered 0.5% models
	85-135VAC, input powered 0.2% models
	0-120% of rated input, auxiliary powered models
Voltage Overrange	150% of rated input continuous (aux. powered only)
Current Input Range	10-200% of rated input with accuracy
Current Overrange	200% continuous, 1000% for 5 seconds
Output Calibration	120VAC/1A = 0-100 watts/element
	120VAC/5A = 0-500 watts/element
Temperature Drift	±250ppm/°C of span, 0.5% models
	±80ppm/°C of span, 0.2% models
Influences (% of span)	<0.5% for PF, phase interaction or current imbalance

COMBINED AC WATT/VAR TRANSDUCERS

Input Burden	Voltage: <0.5VA per element
	Current: <0.2VA per element
Voltage Input Range	100-135VAC, input powered 0.5% models
	85-135VAC, input powered 0.2% models
	0-120% of rated input, auxiliary powered models
Voltage Overrange	150% of rated input continuous (aux. powered only)
Current Input Range	10-200% of rated input with accuracy
Current Overrange	200% continuous, 1000% for 5 seconds
Temperature Drift	±250ppm/°C of span, 0.5% models
	±80ppm/°C of span, 0.2% models
Influences (% of span)	<0.5% for PF, phase interaction or current imbalance

Options for Watt, VAR & Watt/VAR Models

50Hz or 400Hz operation (60Hz standard)
1AAC Current Rated
240VAC Voltage Rated
480 VAC Voltage Rated (not available on 0.2% units)
120VAC, 240VAC, 24VDC or 48VDC Auxiliary Power
Special Calibration to Customer PT & CT

POWER FACTOR TRANSDUCERS

Specifications same as Combined Watt/VAR Models except:

Accuracy	±0.01 power factor
Temperature Drift	±500ppm/°C of span, suffix J models
	±150ppm/°C of span, suffix Z models
Low Current Detect	<4%
Influences (% of span)	<1% for voltage, <2% for current

Options for PF Models

1 AAC Current Rated
120VAC, 240VAC, 24VDC or 48VDC Auxiliary Power

AC PHASE ANGLE TRANSDUCERS

Specifications same as Combined Watt/VAR Models except:

Temperature Drift	±500ppm/°C of span, suffix J models
	±80ppm/°C of span, suffix Z models
Influences	<0.5° for voltage, <1° for current

Options for Phase Angle Models

50Hz or 400Hz operation (60Hz standard)
1AAC Current Rated
120VAC, 240VAC, 24VDC or 48VDC Auxiliary Power
Full Scale = Lagging Phase Angle
±90° Phase Angle

FREQUENCY TRANSDUCER

Input Burden	<0.1VA @120V
Voltage Input Range	100-135VAC, input powered models
	±20% of rated voltage, aux. powered models
Temperature Drift	±250ppm/°C of span, suffix J models
	±50ppm/°C of span, suffix Z models
Harmonics	Fundamental through 9th harmonic

Options for Frequency Models

240 Volt Input
24VDC or 48VDC Aux. Power (0.2% models only)
1-0-1 mADC Output

DC TO DC ISOLATION TRANSDUCERS

Input Burden	<1 mA
Output Compliance	10VDC
Accuracy (<10% of range)	±0.5% of FS
Response Time	500ms (0-99%)
Calibration Adjustments	±5% (zero & FS)
Temperature Range	0-40°C, 20-90% RH non-condensing
Isolation	2600VAC input to output, power & case
	1000VAC aux power to output & case
	1000VAC output to case
Surge Withstand	IEEE472/ANSI C37.90.1-1989 SWC
Auxiliary Power	120VAC ±10%, 2VA

DC TO DC ORDERING INFO

Input	Output	Aux. Power	Case Size	Part #
0-1mADC	4-20mADC	120VAC	2	CLD001J
0-1mADC	0-1mADC	120VAC	2	CLD002J
0-1mADC	0-10VDC	120VAC	2	CLD003J
0-50mVDC	4-20mADC	120VAC	2	CLD101J
0-50mVDC	0-1mADC	120VAC	2	CLD102J
0-50mVDC	0-10VDC	120VAC	2	CLD103J

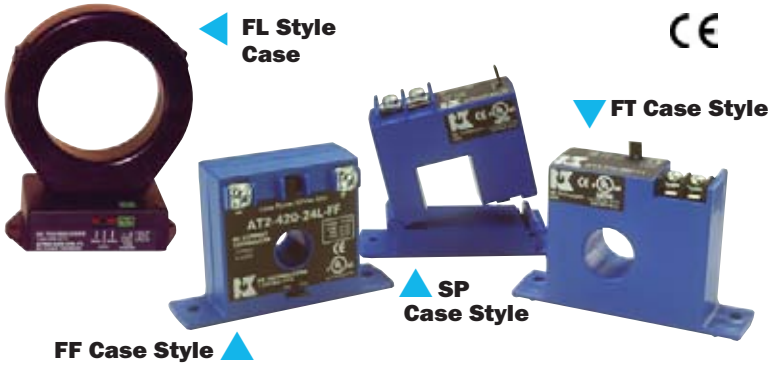
NK Technologies AC Current Transducers

AT and ATP current transducers combine a current transformer and signal conditioner in a single package. These transducers offer jumper selected current input ranges with proportional industry standard 4-20 mA, 0-5 VDC and 0-10 VDC outputs. The AT and ATP series are designed for application on "linear" or sinusoidal AC loads. Available in a split core or two types of solid core cases.

ATR and ATPR transducers combine a current transformer and True RMS signal conditioner in a single package. The ATR and ATPR series provide True RMS outputs on distorted waveforms found on VFD and SCR outputs or on linear loads in "noisy" power environments. Available in a solid or split core case.

AT & ATP SPECIFICATIONS

	-005 Models	-010 Models	-420 Models
Output Signal:	0–5 VDC	0–10 VDC	4–20 mA
Output Limit:	10 VDC	15 VDC	40 mA
Accuracy:	1.0% FS	1.0% FS	0.5% FS
Frequency Range:	50–60 Hz	50–60 Hz	20–100 Hz
Power Supply:	Self-Powered	Self-Powered	12–40 VDC, Loop-Powered
Isolation Voltage:	UL Listed to 1270 VAC, Tested to 5 kV		
Sensing Aperture:	-FF Case: 0.55" (14 mm) Diameter -FT Case: 0.75" (19 mm) Diameter -SP Case: 0.85" (21.5 mm) Sq.		
Case:	UL 94V-0 Flammability Rated		
Environmental:	-4 to 122˚F (-20 to 50˚C), 0–95% RH, Non-Condensing		
Listings:	UL 508 Industrial Control Equipment (USA and Canada), CE		



ATR & ATPR SPECIFICATIONS

Output Signal:	4–20 mA, Loop-Powered, True RMS
Output Limit:	23 mA
Accuracy:	0.8% FS (1.0% on ATR3 & 4)
Frequency Range:	10–400 Hz
Power Supply:	24VDC Nom., 40 VDC Max., 120 VAC
Isolation Voltage:	UL Listed to 1270 VAC, Tested to 5 kV (600 VAC on ATR3 & 4)
Sensing Aperture:	-FT Models: 0.75" (19 mm) Dia. -FL Models: 3.0" (76 mm) Dia. -SP Models: 0.85" (21.5 mm) Sq.
Case:	UL 94V-0 Flammability Rated
Environmental:	-4 to 122˚F (-20 to 50˚C), 0–95% RH, Non-Condensing
Listings:	UL 508 Industrial Control Equipment (USA and Canada), (ATPR 3 & 4 pending)

ORDERING INFORMATION

A	Model	
	AT	Average sensing, loop or self-powered
B	Input Ranges	
	0	0–2/5A
	1	0–10/20/50A
	2	0–100/150/200A
	3	0–375/500/750A
	4	0–1000/1333/2000A
C	Output	
	420	4–20mA
	005	0–5 VDC (0,1,2 only)
	010	0–10 VDC (0,1,2 only)
D	Power	
	24L	24 VDC Loop Powered (4–20mA only)
	000	Self powered (DC output only)
E	Case	
	FF	Fixed core, front terminals (0,1,2 only)
	FT	Fixed core, top terminals (0,1,2 only)
	SP	Split core
	FL	Fixed core (3 & 4 only)

A	Model	
	ATP	Average sensing, ext. powered
	ATPR	True RMS sensing, ext. powered
B	Input Ranges	
	0	0–2/5A (ATP only)
	1	0–10/20/50A (ATP only)
	2	0–100/150/200A
	3	0–375/500/750A
	4	0–1000/2000A
C	Output	
	420	4–20mA
	005	0–5 VDC
	010	0–10 VDC
D	Power	
	24V	24V AC/DC, isolated output
	120	120VAC
E	Case	
	FF	Fixed core, front terminals (0,1,2 only)
	FL	Fixed core (3 & 4 only)
	SP	Split core (0,1,2 only)

A	Model	
	ATR	TRMS sensing, loop powered
B	Input	
	3	0–375/500/750A
	4	0–1000/1333/2000
C	Output	
	420	4–20mA
D	Power	
	24L	24VDC, loop powered
E	Case	
	FL	Fixed core

Crompton AC Current and Voltage Transducers

- CE Compliant (CE Marked)
- Flexible Design with up to Three Transducers in One Housing
- UL Approved
- Enclosure to IEC529 (IP50)
- Flame Retardant
- 35 mm DIN Rail Mount or Key Hole Slots

AC Current, Voltage, Frequency and DC

- Average Sensing and True RMS
- Self Powered and Auxiliary
- Current Measuring to 0.5% Accuracy
- Isolated Input and Output

253 ▶

AC CURRENT

	Input	Auxiliary Power	Output	Catalog Number
AC Current—Average Sensing, Single-Phase	5A AC/60 Hz	Self	0–1 mADC	253-TAAU-LSFA-C6
	5A AC/60 Hz	120 VAC	4–20 mADC	253-TALU-LSHG-C6-DG
AC Current—Average Sensing, 3-Phase, 3 DC Outputs	5A AC/60 Hz	120 VAC	0–1 mADC	256-TASU-LSFA-C6-DG
	5A AC/60 Hz	120 VAC	4–20 mADC	256-TALU-LSHG-C6-DG
AC Current—True RMS Sensing, Single-Phase	5A AC/60 Hz	120 VAC	0–1 mADC	253-TARU-LSFA-C6-DG
AC Current—True RMS Sensing, 3-Phase, 3 DC Outputs	5A AC/60 Hz	120 VAC	0–1 mADC	256-TARU-LSFA-C6-DG
AC Current—Bi-Directional	5A AC/60 Hz	Self	±1 mADC	256-TABU-LSM1-C6-PQ-T3

AC VOLTAGE

Input	Auxiliary Power	Output	Catalog Number
AC Voltage—Average Sensing, Single-Phase			
120 VAC/60 Hz	Self	0–1 mADC	253-TVAU-PQFA-C6
120 VAC/60 Hz	120 VAC	4–20 mADC	253-TVLU-PQHG-C6-DG
AC Voltage—True Sensing, Single-Phase			
120 VAC/60 Hz	120 VAC	0–1 mADC	253-TVRU-PQFA-C6-DG
AC Voltage—True RMS Sensing, 3-Phase, 3 DC Outputs			
120 VAC/60 Hz	120 VAC	0–1 mADC	256-TVRU-PQFA-C6-DG
Input	**System**	**Output**	**Catalog Number**
AC Voltage—Average Sensing, 3-Phase, 3 DC Outputs			
120 VAC/60 Hz	3-Phase, 3-Wire	4–20 mADC	256-TVLU-PQHG-C6-DG
120 VAC/60 Hz	3-Phase, 4-Wire	0–1 mADC	256-TVSU-PQFA-C6-DG
Input	**Auxiliary Power**	**Output**	**Catalog Number**
AC Voltage—Suppressed Zero AC, Expanded Scale			
108–132 VAC	Self	0–1 mADC	253-TVZU-A9FA-C6

FREQUENCY

Input	Frequency	Output	Catalog Number
120 VAC	45–55 Hz	0–1 mADC	253-THZU-PQFA-AG
120 VAC	55–65 Hz	0–1 mADC	253-THZU-PQFA-AN
120 VAC	45–65 Hz	0–1 mADC	253-THZU-PQFA-AJ
120 VAC	360–440 Hz	0–1 mADC	253-THZU-PQFA-BI