

Current Probes for use with PX5/4400/PowerVisa, Energy Platform, and Encore Series 61000



There are many possible current probe options available from Dranetz to fulfill your current measurement requirements for both Dranetz PX5/4400, Energy Platform, and Encore Series 61000 Monitoring instruments. Many of these current probes connect directly into the PX5/4400, Energy Platform, and Encore Series 61000 instruments. For the Encore Series 61000 a 61MAC input module allows connection of the available current probes to the instrument.

Clamp-On









Clamp-on type probes are available to measure as low as 0.1 A to a maximum of 3000 Amps in various ranges. Also, there are available clamp-on probes that measure both AC and DC currents.

Flexible Probes

These type of probes are available in three lengths 24 inches, 36 inches, and 48 inch lengths which allow monitoring currents up to 6000 Amps full scale.

AC Clamp-On Probes






Clamp-on type probes are available in the following ranges as low as 0.1 A up to 3000 A RMS. All of the probes listed below plug directly into the PX5 family of products, Energy Platform, as well as the Series 61000 current module 61MAC.

Product Number	Range		Amplitude Accuracy ±	Phase Accuracy ±	Frequency Range	Maximum Conductor Size
 TR2500	10A to 500 Arms	10A to 500 Arms	1.5% of reading +0.6A	< 4°	48Hz-1kHz	30mm dia.
 TR2500A	10A to 500Arms	100A to 500A	1%	1.5°	40Hz to 5KHz	50mm dia.
		10A to 100A	2%	3°		
 TR2501	100mA to 1.2Arms	1.2A	1.5%	1°	40Hz to 5KHz	15mm dia.
		100mA	1.5%	2°		
 TR2510	1A to 10 Arms	1A to 10 A	1%	1.5°	40Hz to 3 KHz	20 mm dia.
 TR2510A	1A to 10Arms	5A to 10A	1.2%	1.5°	40Hz to 5KHz	15mm dia.
		1A to 5A	2%	1°		
 TR2520A	100A to 3000Arms	1000A to 3000A	0.5%	0.5°	40Hz to 5KHz	72mm dia.*
		300A to 1000A	0.75%	0.75°		
		100A to 300A	1.5%	1.5°		
 TR2530A	20A to 300Arms	50A to 300A	1%	0.5°	30Hz to 5KHz	54mm dia.
		20A to 50A	1.5%	0.6°		
 TR2540A	10A to 1000A	100A to 1000A	1%	0.4°	30Hz to 5KHz	54mm dia.
		10A to 100A	1.5%	0.5°		
 TR2550A	1A to 100Arms	10A to 100A	1%	2.5°	40Hz to 10KHz	15mm dia.
		1A to 10A	2%	5°		

Transient Accuracy: ±10% of Reading, ±0.5% Full scale, ≥10 uSec

* or bus bar

The probes listed below were originally designed to plug directly into a Dranetz Model 658 and require an adapter cable. The CA4300 adapter cable converts the model 658 probe connector to a hypertronics type connector that allows the following probes to plug directly into the PX5 family of products as well as the Series 61000 current module 61MAC.


Product Number	Range		Amplitude Accuracy ±	Phase Accuracy ±	Frequency Range	Maximum Conductor Size
TR2019B 	50A to 300A	300A	1%	1.5°	30Hz to 5KHz	52mm
		200A	1.5%	1.5°		
		50A	3%	3°		
TR2021 	1A to 30A	1A to 30A	1%	3°	40Hz to 10KHz	20mm dia.
TR2022A 	10A to 1000A	200A to 1000A	0.75%	0.75°	30Hz to 5KHz	54mm dia.
		50A to 200A	1.5%	1.5°		
		10A to 50A	3%	3°		
TR2023 	200A to 3000A	200A to 3000A	1%	1°	30Hz to 5KHz	65mm dia.*
CA4300 		Required to allow connection of TR2019B, TR2021, TR2022A, or TR2023 current probe to PX5 family, EP1, or Encore Series 61000 module 61MAC				

Transient Accuracy: ±10% of Reading, ±0.5% Full scale, ≥10 uSec

* or bus bar

TR and PR Series Extension Cables





Allows extension of TR and PR series probes with hypertronics connectors to increase probe cable length available in 5 FT, 10 FT, 15 FT, 20 FT, 25 FT, and 30 FT lengths.

Product Number	Plug Type	Cable Lengths Available
TREXT5 TREXT10 TREXT15 TREXT20 TREXT25 TREXT30	 Male hypertronics connects to PX5, EP1, or 61MAC Female hypertronics connects to TR or PR Series probes	5FT 10FT 15FT 20FT 25FT 30FT

* One extension cable required per probe.

AC / DC Clamp-On Probes




Clamp-on type probes are available in two ranges 150A and 1500 A AC/DC and available battery power only or powered by 9 VDC wall adapter only.

Product Number	Range		Amplitude Accuracy ±	Phase Accuracy ±	Frequency Range	Maximum Conductor Size
PR150/SP1  * Requires AC Adapter	15A to 150A	15A to 150A	1%	3°	DC to 5KHz	52mm dia.
PR150/SP2  9V Battery Only	15A to 150A	15A to 150A	1%	3°	DC to 5KHz	52mm dia.
PR1500/SP7  * Requires AC Adapter	150A to 1500A	150A to 1500A	1%	3°	DC to 5KHz	52mm dia.
PR1500/SP8  9V Battery Only	150A to 1500A	150A to 1500A	1%	3°	DC to 5KHz	52mm dia.

Transient Accuracy: ±10% of Reading, ±0.5% Full scale, ≥10 uSec

AC / DC Clamp-On Probes Accessories

Additional available accessory for the clamp on probes allows the probe to be powered by an ac adapter ideal for long term monitoring and worry free from batteries being depleted.





Product Number		Input Voltage	Input Plug Type	Output Plug Type	Polarity	Output
ACADP-PR9V-US		120 VAC, 60 Hz	US	5.5 mm X 2.1 mm (female)	Center pin positive	+9 VDC 200 mA
ACADP-PR9V-EU		230 VAC, 50 Hz	EURO	5.5 mm X 2.1 mm (female)	Center pin positive	+9 VDC 500 mA
ACADP-PR9V-UK		230 VAC, 50 Hz	UK	5.5 mm X 2.1 mm (female)	Center pin positive	+9 VDC 500 mA

* One AC adapter required per probe.



Flexible Probes




These types of probes are available in three lengths 24 inches, 36 inches, and 48 inch lengths and available in two maximum ranges of 3000 A RMS and 6000 A RMS. Each probe can be powered by battery or AC adapter and multiple probes can be powered by a single AC adapter.

Product Number	Range		Amplitude Accuracy ±	Phase Accuracy ±	Frequency Range	Maximum Conductor Size
DRANFLEX 3000XL 	3A to 3000A (3 ranges)	3A to 30A	± 1% reading ±0.1 A	°1	10 Hz To 10 kHz	24 in. length up to 8 in. diameter 36 in. length up to 11 in. diameter 48 in. length up to 17 in. diameter
		30A to 300A	± 1% reading ±0.1 A	°1		
		300 to 3000A	± 1% reading ± 1 A	°1		
DRANFLEX 6000XL 	6A to 6000A (3 ranges)	6A to 60A	± 1% reading ±0.1 A	°1	10 Hz To 10 kHz	24 in. length up to 8 in. diameter 36 in. length up to 11 in. diameter 48 in. length up to 17 in. diameter
		60A to 600A	± 1% reading ±0.1 A	°1		
		600A to 6000A	± 1% reading ± 1 A	°1		
DRANFLEX 3003XL  3 PHASE	3A to 3000A (3 ranges)	3A to 30A	± 1% reading ±0.1 A	°1	10 Hz To 10 kHz	24 in. length up to 8 in. diameter 36 in. length up to 11 in. diameter 48 in. length up to 17 in. diameter
		30A to 300A	± 1% reading ±0.1 A	°1		
		300 to 3000A	± 1% reading ± 1 A	°1		
DRANFLEX 6003XL  3 PHASE	6A to 6000A (3 ranges)	6A to 60A	± 1% reading ±0.1 A	°1	10 Hz To 10 kHz	24 in. length up to 8 in. diameter 36 in. length up to 11 in. diameter 48 in. length up to 17 in. diameter
		60A to 600A	± 1% reading ±0.1 A	°1		
		600A to 6000A	± 1% reading ± 1 A	°1		
RR3035A 	3A to 3000A (3 ranges)	3A to 30 A	± 0.3A	°1	10 Hz To 10 kHz	24 in. length up to 8 in. diameter 36 in. length up to 11 in. diameter 48 in. length up to 17 in. diameter
		30A to 300A	± 3 A	°1		
		300A to 3000A	± 30 A	°1		
RR6035A 	6A to 6000A (3 ranges)	6A to 60A	± 0.6A	°1	10 Hz To 10 kHz	24 in. length up to 8 in. diameter 36 in. length up to 11 in. diameter 48 in. length up to 17 in. diameter
		60A to 600A	± 6 A	°1		
		600A to 6000A	± 60 A	°1		
CA4300BNC 			Required to allow connection of RR3035A or RR6035A flexible probes to PX5 family, EP1, or Encore Series 61000 module 61MAC instruments. One adapter cable required for each probe to be connected to the PX5, EP1, or Encore Series instruments.			

Transient Accuracy: ±10% of Reading, ±0.5% Full scale, ≥10 uSec


Flexible Probe Accessories

Additional available accessory for the flexible probe allows the probe to be powered by an ac adapter ideal for long term monitoring and worry free from batteries being depleted.

Product Number		Input Range	Input Plug Type	Output Plug Type	Polarity	Output Voltage
RR/PSUS		120 VAC, 60 Hz	US	5.5 mm X 2.1 mm (female)	Center pin negative	+3 VDC 1 A
RR/PSEURO		230 VAC, 50 Hz	EURO	5.5 mm X 2.1 mm (female)	Center pin negative	+3 VDC 1 A
RR/PSUK		230 VAC, 50 Hz	UK	5.5 mm X 2.1 mm (female)	Center pin Negative	+3 VDC 1 A

Flexible Probe 3 VDC Power Cable for PX5 family


Allows 3 VDC power connections up to four flexible probes from PX5 instrument only. This cable connects to either the AC Adapter output of RR/PSUS, RR/PSEURO, or RR/PSUK 3VDC adapters and up to four flexible probes.

Product Number	Output Plug Type	Polarity	Power Connection
RR/PS/4A		5.5 mm X 2.1 mm (female)	Center pin Negative Connects to RR/PSUS RR/PSEURO RR/PSUK 3VDC AC Adapter

Note: Not for use with PR150 or PR1500 series probes each probe is required to be powered individually by a single AC adapter for each probe.


Flexible Probe 3 VDC Power Cable for Encore Series

Allows 3 VDC power connections up to four flexible probes from Encore Series 61000 instrument only. This cable connects directly from the Encore Series 61000 mainframe and up to four flexible probes.

Product Number		Output Plug Type	Polarity	Power Connection
DC3VFLEX		5.5 mm X 2.1 mm (female)	Center pin Negative	Connects to 61PS module of Encore Series 61000 only

Flexible Probe Extension Cable for Encore Series

Allows extension of cable length of DC3VFLEX cable by length of 10FT and 20FT.

Product Number		Plug Type	Cable Lengths Available	Power Connection
DC3VFLEXEXT10 DC3VFLEXEXT20		Male connects to 61000 Female connects to DC3VFLEX	10FT 20FT	Connects to 61PS module of Encore Series 61000 only

Specifications are subject to change without notice.



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