




# Non-Contacting Electrostatic Probe Selection Chart

The patented design of Advanced Energy's Trek probes provides the largest possible signal strength to reduce noise and drift, and to maintain performance at wider probe-to-surface distances. Selection considerations:

- Aperture Size
- End and Side View
- Round and Square Bodied
- High Temperature
- High-resolution
- Transparent
- Special Purpose
- High Sensitivity
- High Vacuum
- Miniature

Trek Electrostatic Probe Options						
Electrostatic Voltmeter Model	Probe Model	Dimensions (H x W x L) or (∅ x L)	Body Shape / Aperture Location / Aperture Size	Special Feature	Speed of Response (Less Than)	Noise (rms) (Less Than)
<b>Trek 320C 0 to ±100 V DC or peak AC</b>						
	3250	30.5 x 28.7 x 57.2 mm	Square / side / ∅ 6.35 mm	High sensitivity	300 ms	5 mV (1:1 ratio)
<b>Trek 323 0 to ±100 V DC or peak AC</b>						
	6000B-8	∅ 9.5 x 68.6 mm	Round / side / ∅ 1.33 mm	High sensitivity	300 ms	20 mV (1:1 ratio)
	6000B-16	10.2 sq x 68.6 mm	Square / side / ∅ 1.32 mm	High sensitivity	300 ms	20 mV (1:1 ratio)
<b>Trek 325 0 to ±40 V DC or peak AC</b>						
	PD1216P	∅ 10 x 56 mm	Round / side / ∅ 4.6 mm	High sensitivity	3 ms	1 mV (1:1 ratio)
<b>Trek 341B 0 to ±20 kV DC or peak AC and Trek P0865 0 to ±100 V DC or peak AC</b>						
	3450	11.8 x 11.1 x 76.2 mm	Square / side / 3.05 x 1.52 mm		200 μs	20 mV
	3453ST	11.8 x 11.1 x 76.0 mm	Square / side / ∅ 1.59 mm	High temperature (to 100°C)		
	3455ET	11.8 x 11.1 x 76.2 mm	Square / end / ∅ 1.59 mm	High vacuum		
<b>Trek 344 0 to ±2 kV DC or peak AC and Trek 347 0 to ±3 V DC or peak AC</b>						
	555P-1	5.6 sq x 49.8 mm	Square / side / ∅ 2.56 mm	Miniature	3 ms	3 mV
	555P-2	5.6 sq x 49.8 mm	Square / end / ∅ 1.17 mm	Miniature	4.5 ms	4 mV
	6000B-5C	11.2 x 69.7 mm	Round / end / ∅ 0.79 mm	High-resolution	4.5 ms	4 mV
	6000B-6	∅ 10.3 x 69.7 mm	Round / side / ∅ 0.79 mm	High-resolution	3 ms	3 mV
	6000B-7C	∅ 11.2 x 65.7 mm	Round / end / ∅ 1.32 mm		4.5 ms	4 mV
	6000B-8	∅ 9.5 x 68.6 mm	Round / end / ∅ 1.32 mm		3 ms	2 mV

Trek Electrostatic Probe Options						
Electrostatic Voltmeter Model	Probe Model	Dimensions (H x W x L) or (∅ x L)	Body Shape / Aperture Location / Aperture Size	Special Feature	Speed of Response (Less Than)	Noise (rms) (Less Than)
Trek 344 0 to ±2 kV DC or peak AC and Trek 347 0 to ±3 V DC or peak AC (Continued)						
	6000B-13C	10.2 sq x 63.7 mm	Square / end / ∅ 0.79 mm	High-resolution	4.5 ms	4 mV
	6000B-14	10.2 sq x 68.6 mm	Square / side / ∅ 0.79 mm	High-resolution	3 ms	3 mV
	6000B-15C	10.2 sq x 63.7 mm	Square / end / ∅ 1.32 mm		4.5 ms	4 mV
	6000B-16	10.2 sq x 68.6 mm	Square / side / ∅ 1.32 mm		3 ms	3 mV
	6300B-7	11.8 x 11.1 x 76.2 mm	Square / end / ∅ 1.32 mm	High temperature (to 100°C)	6 ms	10 mV
	6300B-8	11.8 x 11.1 x 76.2 mm	Square / side / ∅ 1.32 mm	High temperature (to 100°C)	4 ms	10 mV
Trek 368A 0 to ±2kV DC or peak AC or Trek 370 0 to ±3 kV DC or peak AC						
	3800AE-2-3M	5.6 sq x 50 mm	Square / end / ∅ 1.85 mm	Miniature	Trek 368A: less than 200 μs	Trek 368A: less than 25 mV
	3800S-2	5.6 sq x 50 mm	Square / side / ∅ 2.35 mm	Miniature		
	3870ST-2	5.6 sq x 50 mm	Square / side / ∅ 2.35 mm	Elevated temperature (to 60°C)	Trek 370: Less than 50 μs	Trek 370: Less than 20 mV
Trek 370 0 to ±3 kV DC or peak AC						
	7000ER	∅ 8.7 x 79.8 mm	Round / end / ∅ 1.60 mm		50 μs	20 mV

<sup>1</sup> Probe cable length is 3048 ±76 mm (10 ft ±3 in)



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