



EPRECSA

Equipos para Redes Eléctricas del Centro S.A. de C.V.

POST INSULATORS SENSORS

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Post Insulator Sensor Specifications

ELECTRICAL RATINGS:			
INSULATION CLASS	15kV	25kV	35kV
IMPULSE (BL)	110kV	150kV	200kV
LEAKAGE DISTANCE (in.)	15.8	24.5	36.5
DRY ARC DISTANCE (in.)	8.8	12.6	17.2
OVERALL HEIGHT (in.)	13.2	16.6	21.8
WITHSTAND* (60Hz, 1 min.)	34kV	40kV	50kV
CORONA (extinction)	11kV	19kV	26kV
LOW FREQ. DRY FLASHOVER	70kV	100kV	125kV
LOW FREQ. WET FLASHOVER	50kV	70kV	95kV

*NOTE: Withstand test is not performed on sensors with a voltage divider. Specify 50Hz, 60Hz.

CURRENT SIGNAL OUTPUT:	
RATIO	600 Amps: 10 Volt
OUTPUT BURDEN / LOAD:	Calibrated for a 10,000 or greater load
ACCURACY:	+/- 1%
PHASE SHIFT:	0 degrees nominal, +/- 1.5 degrees
OPEN CIRCUIT VOLTAGE:	10 Volts at 600 Amps line current

VOLTAGE SIGNAL OUTPUT:	
OUTPUT IMPEDANCE:	Calibrated for a 1 megohm load
ACCURACY:	+/- 1% (+/- 0.5% available upon request)
PHASE SHIFT:	0 degrees nominal, +/- 1.5 degrees

Calibration of current and voltage signals is virtually unaffected by conductor material, size, temperature, armor rad, adjacent phases, line angle or insulator contamination.

MECHANICAL:			
INSULATION CLASS	15kV	25kV	35kV
CANTILEVER STRENGTH (Ult. lbs.)	2,800	2,800	2,800
WEIGHT (lbs.)	37	48	59
SHIPPING WEIGHT (lbs.)	48	58	64

OPERATING TEMPERATURE:	
Temperature range:	-40°C to +65°C

CONDUCTOR DIAMETER RANGE:	
The two sided keeper is made of aluminum and can accommodate a 0.25 inch to 1.25 inch diameter conductor.	

BASIC CONSTRUCTION:	
The Multicore Sensor is molded from POLY-SIL, a high dielectric strength, anti-tracking polymer developed by Lindsey Manufacturing Company under EPRI contract.	

POST INSULATOR SENSORS

Ordering Table Part Number Sequence 96AB/CDEFGH Where:	
Code	Description
A	Insulation Class Options: 5= 15kV (110kV IBL) 6= 25kV (150kV IBL) 7= 35kV (200kV IBL) 8= 50kV (250kV IBL)
B	Leakage Distance Options: 0= Standard (19" for 15kV, 20" for 25kV, 24" for 35kV, 33" for 40kV) (33mm for 15kV, 510mm for 25kV, 740mm for 35kV, 840mm for 40kV) 2= additional 8" (203mm) creep above standard 3= additional 9" (229mm) creep above standard 4= additional 12" (305mm) creep above standard
C	Top Configuration Options: C= Clamp-top/Tube-Top E= Multicore (Only available with 600A/10V output option) S= Substation/Busbar
D	Current Output Signal Options: 1 = 600A/10V (required when selecting Multicore top) 2 = 600A/5V 3 = 600A/2.5V 4 = 600A/1A 5 = 300A/5A 6 = 300A/10V X= Special
E	Voltage Divider Ratio Options: 1=14001 2=22001 3=33001 4=10,0001 5=601 6=1201 7=1661 8=1001 X=Special
F	Clamp Option Options: 0 = No clamp top choice C = Clamp-top choice (required when selecting clump-top option)
G	Terminal Option Options: 0 = 1.185" ID, stainless steel 1 = 1.185" ID, stainless steel (65) tube with SS bonding clamp 2 = Aluminum Bus Bar, 2 Hole Pad 3 = Aluminum Bus Bar, 4 Hole Pad 4 = Std. Conductor Keeper (required when selecting Multicore top)
H	Connector Options: Blank = Standard IFT Common Connector C = Cast-in cable G = 20' Cable with Amphibol Connector & Strain Relief A = Amphibol Connector

Example: 96AB/E1201 is a 25kV, standard leakage distance, Multicore top style, with 600A/10V current and 22001 voltage output ratio, and supplied with a standard Common connector.

Combined Voltage and Current Post Insulator Sensors

Lindsey combined voltage and current post insulator sensors consist of both high accuracy (better than 1%) current and voltage sensors contained in a body with full electrical and mechanical post insulator ratings. All models provide excellent harmonic response for voltages, and all current sensors except for the Multicore style are flat though the 40th harmonic.

This sensor is available in four terminal packages:

- Multicore-style** design allows the conductor to be lifted into the sensor, eliminating the need to cut the conductor or make a jumper. This style sensor is not recommended for applications requiring accurate harmonic current measurements.
- Busbar-style** design is fitted with standard 2- or 4-hole NEMA pads, ideal for many substation applications.
- Tube-type** design for where a conductor can be threaded through and clamped to the stainless steel tube; practical for many switchgear and substation applications.
- Clamp-top style** eliminates the need to cut the phase conductor while providing flat-frequency response up to the 40th harmonic. Clamp-top style sensors can be used in place of any horizontal or vertical line post insulator.



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