

Smart-Point[®] Power Monitoring System



Multicore Sensor Specifications

ELECTRICAL RATINGS:	9650/E1004	9660/E1004	9670/E1004
INSULATION CLASS	15kV	25kV	35kV
IMPULSE (BIL)	110kV	150kV	200kV
LEAKAGE DISTANCE (in)	16.4	24.5	35.3
DRY ARC DISTANCE (in)	8.8	12.6	16.3
OVERALL HEIGHT (in)	13.2	16.7	20.8
WITHSTAND* (60Hz, 1 min.)	34kV	40kV	50kV
CORONA (extinction)	11kV	19kV	26kV
LOW FREQ. DRY FLASHOVER	80kV	110kV	125kV
LOW FREQ. WET FLASHOVER	60kV	85kV	100kV

***NOTE:** Withstand test is not performed on sensors with a voltage divider.

CURRENT SIGNAL OUTPUT:

RATIO: 600 Amps : 10 Volt

OUTPUT BURDEN/LOAD: Calibrated for a 10,000 Ohm or greater load

ACCURACY: $\pm 2\%$

PHASE SHIFT: 0 degrees nominal, ± 1.5 degrees

OPEN CIRCUIT VOLTAGE: 10 Volts at 600 Amps line current.

VOLTAGE SIGNAL OUTPUT (Optional):

9650/E1404

9660/E1404

9670/E1904

DIVIDER RATIO

10,000:1

10,000:1

30,000:1

OUTPUT IMPEDANCE: Calibrated for a **1 megohm** load

ACCURACY: $\pm 1\%$

PHASE SHIFT: 0 degrees nominal, ± 1.5 degrees

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

MECHANICAL:

INSULATION CLASS

15kV

25kV

35kV

CANTILEVER STRENGTH - (Ultimate, lbs.)

2,800

2,800

2,800

WEIGHT (lbs.)

39

49

59

SHIPPING WEIGHT (lbs.)

44

54

64

NOTE: For vertical mounting only.

OPERATING TEMPERATURE:

Temperature range: -40°C to $+65^{\circ}\text{C}$.

CONDUCTOR DIAMETER RANGE:

The two-sided keeper is made of aluminum (for aluminum conductor) or galvanized ductile iron (for copper conductor) and can accommodate a 0.25 inch to 1.25 inch diameter conductor.

BASIC CONSTRUCTION:

The Multicore Sensor is molded from POLYSIL, a high dielectric strength, anti-tracking polymer concrete developed by Lindsey Manufacturing Company under EPRI contract.