

# LINDSEY CURRENT AND VOLTAGE MONITORING INSULATOR (CVMI)

## Application Information Form

This questionnaire is designed to gather enough facts to determine the proper CVMI for a specific application and to eliminate assumptions that cause installation or connection headaches. Please answer all applicable questions. Skip the voltage sensing questions if only current sensing is desired. For an accurate price quotation, indicate desired quantities. Whenever detailed information is requested regarding custom mounting configurations, brackets or busbars, please submit a dimensional drawing.

### 1. General Information

Approximately, how many Voltage/Current Sensors will be needed?

What is the system voltage, line to line? \_\_\_\_\_ kV

What is the normal operating current range? \_\_\_\_\_ to \_\_\_\_\_ amps

How much leakage distance do you require? \_\_\_\_\_ total inches  
or \_\_\_\_\_ inches/kV

The CVMI can supply current and voltage signals with 1% accuracy to a variety of specialized electronic devices that may gather, process and store data, control capacitors and switchgear, analyze power quality, or perform other functions. Describe your instrumentation package by manufacturer, part number and function. Attach additional catalog sheets and specifications as necessary. **WE NEED THIS INFORMATION TO GUARANTEE YOUR APPLICATION.**

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CVMI outputs are AC signals only. If your instrumentation package requires a DC signal or other type of input, we recommend transducers made by: Hathaway, Inc., contact Kris LaRosa 800-537-2181 X208 (USA), Cynthia Kermes 972-241-2200 X209 (international).

Other manufacturer's transducers may or may not work with the Lindsey voltage sensor. **A TRANSDUCER WITH AN INPUT IMPEDANCE OF EXACTLY ONE MEGOHM IS REQUIRED.**

**All CVMI's with voltage sensing require that a Lindsey cable assembly (or Lindsey approved alternative) be used.**

What is the total length of cable required to connect to the inputs of the instrumentation package? \_\_\_\_\_ feet

**DO NOT SHORTEN THE CABLE WITHOUT CONSULTING LINDSEY. It will change the voltage sensor calibration.**

The use of junction boxes will introduce unpredictable measurement errors because of excess capacitance, unknown shielding, signal cross-coupling, and uncharacterized cable.

Do you plan to use a junction box? Y or N

What is the cable length between the sensor and the junction box? \_\_\_\_\_ feet

What is the cable length between the junction box and the instrumentation package? \_\_\_\_\_ feet

## 2. CURRENT SENSOR INFORMATION

Do you require current sensing? Y or N

If yes, choose the best current signal output which matches your instrumentation:

600amp:10volts \_\_\_\_\_ 600amps:1amp \_\_\_\_\_

600amps:6volts \_\_\_\_\_ 300amps:5amps \_\_\_\_\_

600amps:5amps \_\_\_\_\_ \*Special \_\_\_\_\_ : \_\_\_\_\_

\*Special ratios affect price, delivery and accuracy. We cannot supply 50:5, 100:5 or 150:5 ratios.

What burden is associated with the current output? \_\_\_\_\_ ohms

## 3. VOLTAGE SENSING INFORMATION

Do you require voltage sensing? Y or N

What accuracy is required? (standard is 1%)  $\pm$  \_\_\_\_\_%

What is the AC voltage signal input requirement of your electronic device? (i.e. the nominal output voltage from the voltage sensor)

minimum: \_\_\_\_\_ volts      nominal: \_\_\_\_\_ volts      maximum: \_\_\_\_\_ volts

Choose the best standard voltage divider ratio:

1400:1 \_\_\_\_\_

60:1 \_\_\_\_\_

2200:1 \_\_\_\_\_

120:1 \_\_\_\_\_

3300:1 \_\_\_\_\_

166:1 \_\_\_\_\_

10000:1 \_\_\_\_\_

\*Special \_\_\_\_\_ : \_\_\_\_\_

\*Special ratios affect price, delivery and accuracy.

Is phase shift of the voltage signal critical to your application? Y or N

If yes, can you electronically compensate for a known phase shift? Y or N

**THE VOLTAGE SIGNAL FROM A CVMI CANNOT BE USED AS A POWER SOURCE.**

If any burden is specified on the voltage signal input of your electronic device, use a PT or connect to secondary circuits for power input. **CVMI's will accurately supply a voltage sensing signal into an input impedance of EXACTLY ONE MEGOHM.** Correction factors can be supplied for some other input impedances if close to one megohm.

What is the voltage signal input impedance of your instrumentation package or transducer? \_\_\_\_\_ megohms

Is your system? 50 Hz \_\_\_\_\_ or 60 Hz \_\_\_\_\_

**4. MOUNTING HARDWARE INFORMATION**

Will the CVMI's replace insulators that support the full weight of the conductor? Y or N

Will the CVMI's be installed at a deadend and not support the conductor? Y or N

Will the CVMI's be mounted on or in conjunction with switchgear? Y or N

If yes, what manufacturer and model? \_\_\_\_\_

Is a custom Lindsey bracket required for switchgear mounting? Y or N  
(Please provide drawings and details of the switch and CVMI location.)

Will any CVMI's be mounted vertically? Y or N

If yes, how many \_\_\_\_\_

For crossarm mounting, will a standard 7-1/2" line post mounting stud be required? Y or N

Are poletop mounting brackets required? Y or N

If yes, choose pole diameter range: 7" to 11": \_\_\_\_\_ 10" to 16": \_\_\_\_\_  
Will any CVMI's be mounted horizontally? Y or N

If yes, how many \_\_\_\_\_

Are horizontal pole mount brackets required? Y or N  
The CVMI connector is internally grounded. Do you require an arc horn? Y or N

### 5. CONDUCTOR INFORMATION

What is the conductor material? Aluminum: \_\_\_\_\_ Copper: \_\_\_\_\_  
What is the conductor size? \_\_\_\_\_ MCM  
What is the conductor name? \_\_\_\_\_  
What is the conductor diameter? \_\_\_\_\_ inches  
Will armor rod be used at the trunion clamp? Y or N  
If yes, what is the diameter with armor rod? \_\_\_\_\_ inches  
Would you prefer a standard busbar? Y or N  
If yes, indicate pad style. 2 hole pads: \_\_\_\_\_ 4 hole pads: \_\_\_\_\_  
Do you require a custom busbar? (please provide drawings and details) Y or N

### 6. CONTACT PERSON

Name \_\_\_\_\_  
Title \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_  
Telephone Number \_\_\_\_\_ Fax \_\_\_\_\_

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