Order Specification for Type VS Voltage Sensors

Please contact our Application Engineering personnel at (704) 392-1396 if you require assistance in completing the Order Specification checklist. In the event that we must contact you to confirm your information, please provide a contact name and phone number.

Organization _____ Contact (Name) _____

Phone Nbr _____ E-Mail Address _____

1.00 Sensor Unit

1.01 Number of Sensor Units required _____

1.02 Nominal Voltage (line to line) _____ kV *(7.5, 15, 25, 34.5, 46, 69, 115, 138, 161, 230, 345, 500)*

1.03 BIL Rating _____ kV *(95, 110, 150, 200, 250, 350, 550, 650, 750, 900, 1050, 1300, or 1470)*

1.04 Mounting orientation shall be vertical (upright) _____, horizontal (cantilever) _____, under-hung _____, other _____

1.05 Type of mounting structure _____ *(Specify pole, cross-arm, truss, pedestal, column, etc.)*; drawing with dimensions available _____ *(Yes, No).* If yes, please attach drawing

1.06 NEMA two hole aluminum terminal pads are provided on each Sensor Unit as standard equipment. Other terminal pad or bus/cable connector configurations can be provided. Please refer to the sensor catalog section for the standard two hole terminal pad dimensions. Terminal pad will _____, will not be _____ standard configuration.

2.00 Output Unit

2.01 Please complete the Signal Input/Output/Mapping Diagram at the end of this document in conjunction with the information requested below.

2.02 Output Units can be provided with standard voltage output signal formats of 0-115 and 0-67 VAC or an optional 0-10 VAC. Standard VA is 1.44 but optional 15 and 25 VA are available for the 0-115 and 0-67 formats. Other formats may be supported. Please contact the factory if your device requirements are other than the standard formats presented here.

2.03 The Output Unit supports up to three digital Sensor Unit inputs and three analog voltage outputs. A single Output Unit can provide three phase monitoring or alternately, the input signal from a single Sensor Unit can be used to provide up to three voltage output signals for three separate load devices (relays, meters, rtu's, etc.)

2.04 Required VAC for output signal 1 _____, output signal 2 _____, output signal 3 _____
(Specify 0-115, 0-67, 0-10, or 0 for null)

2.05 Required VA of output signal 1_____, output signal 2_____, output signal 3_____
(Specify 1.44, 15, 25, or 0 for null) Note: 25 VA is available for up to 2 outputs only.

Southern Electrical Equipment Company, Inc. ● P.O. Box 668547 ● Charlotte, N.C. 28266
● Phone (704)-392-1396 ● Fax (704)-392-7033 ● E-Mail sales@seecoswitch.com

Order Specification for Type VS Voltage Sensors

2.06 Number of required voltage output signals per Sensor Unit _____ *(i.e. 1:1, 2:1, or 3:1)*

2.07 Description of devices connected to each output signal _____
_____

3.00 Power Source/Enclosure

3.01 Available customer supplied power source for the Output Unit _____ *(Specify 24, 48, 125 VDC or 120 VAC)*

3.02 An optional SEECO supplied 24 VDC power source is available, which includes batteries, battery charger, and a battery testing mechanism; optional power source requires customer supplied 120 VAC. Optional 24 VDC power source will _____, will not be _____ required

3.03 For geographically remote applications an optional SEECO supplied solar power source is available, which includes solar panels, mounting brackets, connection cables, batteries, trickle charger, and a battery testing mechanism. Optional solar power source will _____, will not be _____ required.

If solar option is required installation location will be _____ at latitude _____, longitude _____. The total current draw (load) of all associated equipment (rtu, radio, etc.) that will be supported by the solar power source is _____ amps

3.04 An enclosure is provided with the Output Unit by SEECO; it is sized specifically for the requirements of the Output Unit. Please refer to the sensor catalog section for dimensions on both the standard and (optional) large enclosure

3.05 Other customer supplied equipment will _____, will not be _____ housed in this enclosure. If yes, please identify the equipment to be housed _____
_____

4.00 Communication Cable

4.01 Communication cable can be ordered in 10' increments up to a maximum length of 4000'. One cable is required per Sensor Unit.

4.02 Length of cable 1 _____, cable 2 _____, cable 3 _____

5.00 Options

Sensor Unit

5.01 A mounting bracket or structure for the Sensor Unit will be required _____ *(Yes, No)*; drawing with dimensions available _____ *(Yes, No).* If yes, please attach drawing.

5.02 Custom terminal pad or bus/cable connector configuration will be required _____ *(Yes, No)*; drawing with dimensions available _____ *(Yes, No).* If yes, please attach drawing.

5.03 Tin dipped aluminum terminal pad for copper conductor will be required _____ *(Yes, No)*;

Southern Electrical Equipment Company, Inc. ● P.O. Box 668547 ● Charlotte, N.C. 28266
● Phone (704)-392-1396 ● Fax (704)-392-7033 ● E-Mail sales@seecoswitch.com

Order Specification for Type VS Voltage Sensors

5.00 Options (cont'd)

Output Unit

5.11 Will devices connected to the Output Unit require a non-standard format? _____ *(Yes, No)*; If yes, please describe _____
_____
_____

Power Source/Enclosure

5.21 A custom or non-standard enclosure will be required _____ *(Yes, No)*; drawing with dimensions available _____ *(Yes, No).* If yes, please attach drawing.

5.22 A mounting bracket or structure for the Enclosure will be required _____ *(Yes, No)*; drawing with dimensions available _____ *(Yes, No).* If yes, please attach drawing.

5.23 If optional SEECO supplied 24 VDC power source is required please indicate the additional features to be included: 24/12 (2.5A) DC-to-DC converter _____ *(Yes, No)*, 24/48 (1.25A) DC-to-DC converter _____ *(Yes, No)*, main AC breaker _____ *(Yes, No)*, main DC breaker _____ *(Yes, No)*, AC knife switch _____ *(Yes, No)*, sliding link or other special terminal block arrangements _____ *(Yes, No)*

5.24 Other 24 VDC power source requirements _____
_____
_____

6.00 Miscellaneous

6.01 If the information provided above has not completely captured or conveyed the requirements of your application, please add any additional information or comments here
_____
_____
_____
_____
_____
_____
_____
_____

Order Specification for Type VS Voltage Sensors

Signal Input/Output/Device Mapping Diagram - This work sheet is provided as an aid to assist you in identifying the required sensor system components for your application and the communication pathway from these components to your devices. Please consult the factory if assistance is need to complete this input sheet.

Specify the BIL for each Sensor Unit. Up to three Sensor Units of the same or different configuration can share one Output Unit in the same application.

Specify the required length of each communication cable; cable lengths can be provided in 10' increments up to a maximum length of 4000'. One communication cable is required per Sensor Unit.

The Output Unit accepts up to three voltage inputs and provides up to three analog voltage outputs. Each Sensor Unit can support multiple devices (1-3 voltage output signals) but not to exceed the Output Unit total capacity of three.

The Output Unit can be provided with standard voltage output signal formats of 0-115 or 0-67 VAC, or an optional 0-10 VAC. Standard VA is 1.44 but optional 15 and 25 VA are available for the 0-115 and 0-67 VAC outputs.

For each output signal specify the origin Sensor Unit (1, 2, 3), the required VAC (115, 67 or 10) and the required VA (1.44, 15 or 25). A maximum of two outputs can utilize the 25 VA option.

For each customer device specify the device type (relay, meter, rtu, etc.), the brand or manufacturer and catalog number.