

# 3-Phase AC Sensor PressureMAP Data Entry Notes

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System Studies' P/N 9800-4505 AC Sensor is ideal for monitoring incoming line voltage to important AC-powered equipment, such as central office air dryers. Designed for 3-phase 220 volt applications, this UL or CUL listed device provides three separate inputs and three 4-20 milliamperes (mA) monitoring outputs. Each mA output is proportional to a measured incoming voltage from 0-300 VAC. Remote reading capability is provided via a 289H or 289H-M LSS monitor and PressureMAP software.

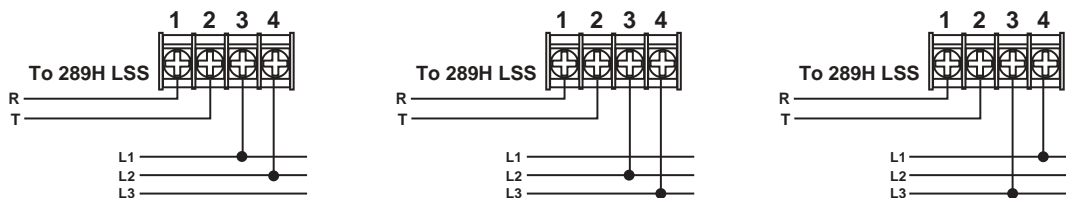
In PressureMAP each of the three phases (outputs) must be assigned a unique Access Number, a "CV" Device Type and a "VAC/300" Transducer Type. The devices are then carefully monitored throughout the day and night for voltage drops. If PressureMAP detects that the voltage on one of the AC phases has dropped to 185 VAC or below, it will generate and distribute a four star alarm. The alarm clears at 200 volts.

System Studies recommends that the required data for the sensor be entered into the PressureMAP database before completing the installation. With PressureMAP updated, proper device installation can be confirmed.

## WARNING

The 9800-4505 AC Sensor supplied in this shipment should be installed **ONLY** by a qualified electrician following the manufacturer's instructions supplied with the product.

Please note that for the intended AC power supply monitoring application described above, the following wiring schematic should be used:



**Note:** Include a 3-phase fuse block between the AC panel feed and the sensor.

## Notes for Proper Connector Block Wiring

During the process of wiring the sensor, the electrician should be instructed to connect two output jumper wires from terminals 1 and 2 on each of the sensor's terminal strips. Make sure that enough wire is provided to reach the 289H LSS connector block. Because the sensor is polarity sensitive, the terminal 1 wire should be connected to the designated ring (R) pin on the 289H block; the terminal 2 wire is connected to the tip (T) pin. The position of these pins on the block and the corresponding block to 289H cable connection determine the Access Number assigned to each sensor output. Please refer to the 289H or 289H-M LSS Installation and Operations Manual for information on how to wire the connector block and assign corresponding Access Numbers.