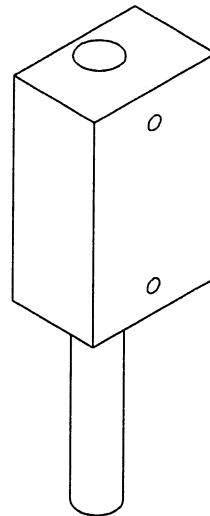




OUTDOOR TEMPERATURE SENSOR

THE 3282Q TEMPERATURE SENSOR CONTAINS A SEALED SOLID STATE SENSING DEVICE DESIGNED TO INTERFACE DIRECTLY WITH SOLIDYNE MICROMIZER, CLIPPER, AND XL9600 CONTROLLERS. THE SENSOR PRODUCES OUTPUT VOLTAGES WHICH CORRESPOND TO TEMPERATURES BETWEEN -25° F TO 212° F. THE 3282Q INCLUDES AN ENCLOSURE AND MOUNTING HARDWARE.

- Simple Mounting Design
- Excellent Linearity & Accuracy
- No external power required



#3282Q

DISCLAIMER

Solidyne Corporation reserves the right to change product specifications without notice. Solidyne Corporation assumes no liability for damages incurred directly or indirectly from the use of this equipment or from errors, omissions or discrepancies between the equipment and the installation guides.

GENERAL

The 3282Q outdoor temperature sensor contains a sealed solid state sensing device designed to interface directly with Solidyne Micromizer, Clipper, and XL9600 Controllers. The sensor produces output voltages which correspond to temperatures between -25° F - 230° F. The 3282Q includes an enclosure and mounting hardware. The sensor is not designed for direct immersion in liquid.

SPECIFICATIONS

OUTPUT VOLTAGE: 2.415 VDC to 3.730 VDC
(corresponds to -25° F to +212° F)

TIME STABILITY: +/- 0.5 per 1000 hours of operation (typical)

ACCURACY: +/- 1° F after calibration (See Calibration section, p. 5)

OPERATING TEMPERATURE: -25° F to 212° F

STORAGE TEMPERATURE: -40° F to 230° F

DIMENSIONS: See Figure 1.

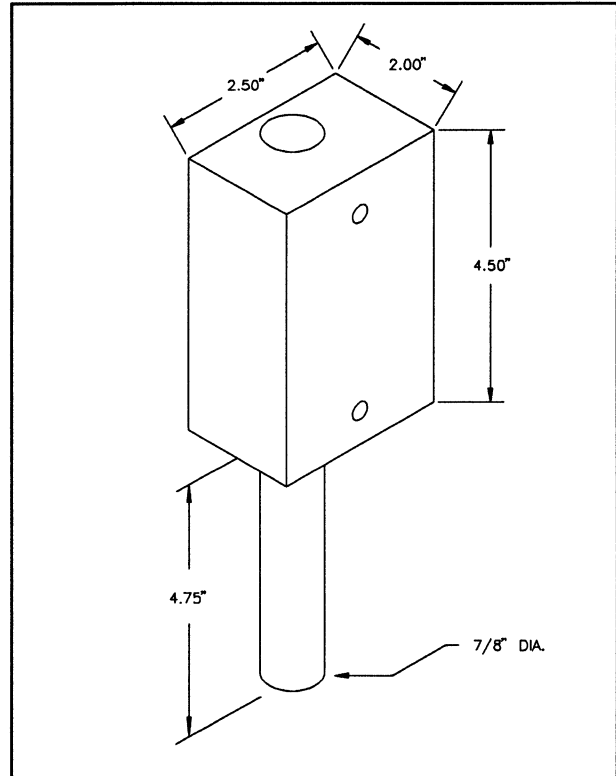
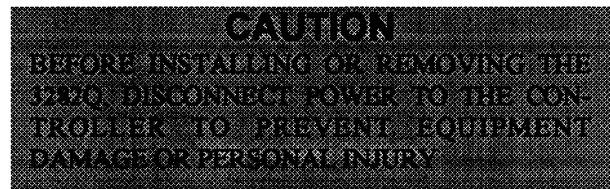


Fig. 1, Dimensions

INSTALLATION

1. Read installation instructions carefully.



2. Discharge any static you may have accumulated by touching a good earth ground before touching any components.
3. Check the range of operation and applicability of this sensor for your application.
4. This product should be installed by a trained, qualified service technician.
5. After the installation is complete, be sure to check the system out for proper operation.

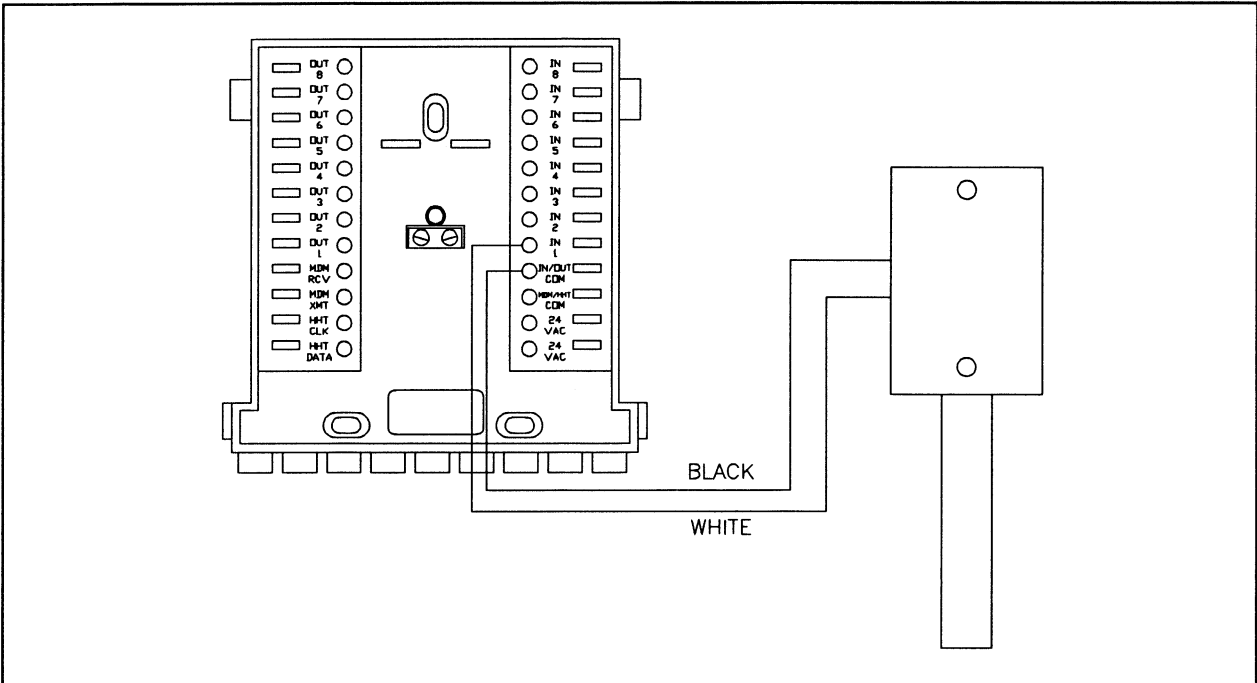


Figure 2: Clipper Connections

MOUNTING / LOCATION

The sensor should be mounted in an area where it will not be exposed to direct sunlight. The sensor is designed to mount to 13/16 OD PVC conduit using PVC cement. However, any secure mounting method is acceptable. When mounted, the sensor probe should be facing down.

WIRING

Remove the cover and pad of the 3282Q through the two screws. Inside, a pair of wires is used to connect the sensor to a Solidyne controller.

WIRING with Clipper/ClipperNet

The 3282Q has two wires which must be connected to the Clipper baseplate. The black wire connects to the IN/OUT COM and the white wire to one of the 8 inputs of the Clipper (see Figure 2). Typically, a twisted-pair of 18 AWG wires is run from the sensor to the controller. Shielding is necessary under most conditions and the sensor can be located up to 2000 feet from the controller.

NOTE: The sensor, while being moisture-resistant, will not withstand complete immersion in liquid.

WIRING with XL9600

The XL9600 ICS-4 Board has three columns of terminal blocks. Each column has four 8-position terminal blocks for the 32 digital inputs, 32 analog inputs and 32 outputs the XL9600 can accommodate. The row of 8-position terminal blocks above these columns are for the digital input, analog voltage input, analog current input and digital/analog output commons.

The black wire of the 3282Q connects to any position of the analog voltage common block. The white wire connects to one of the terminals of the middle column (Analog Inputs), see Figure 3.

The corresponding jumper on the power supply board (right bank) for the analog input selected must be placed in the voltage (right) position.

COVER

Place the cover and the pad back on the 3282Q. Screw plugs (3/4" diameter) are provided to seal the openings on the top or on the side of the 3282Q housing.

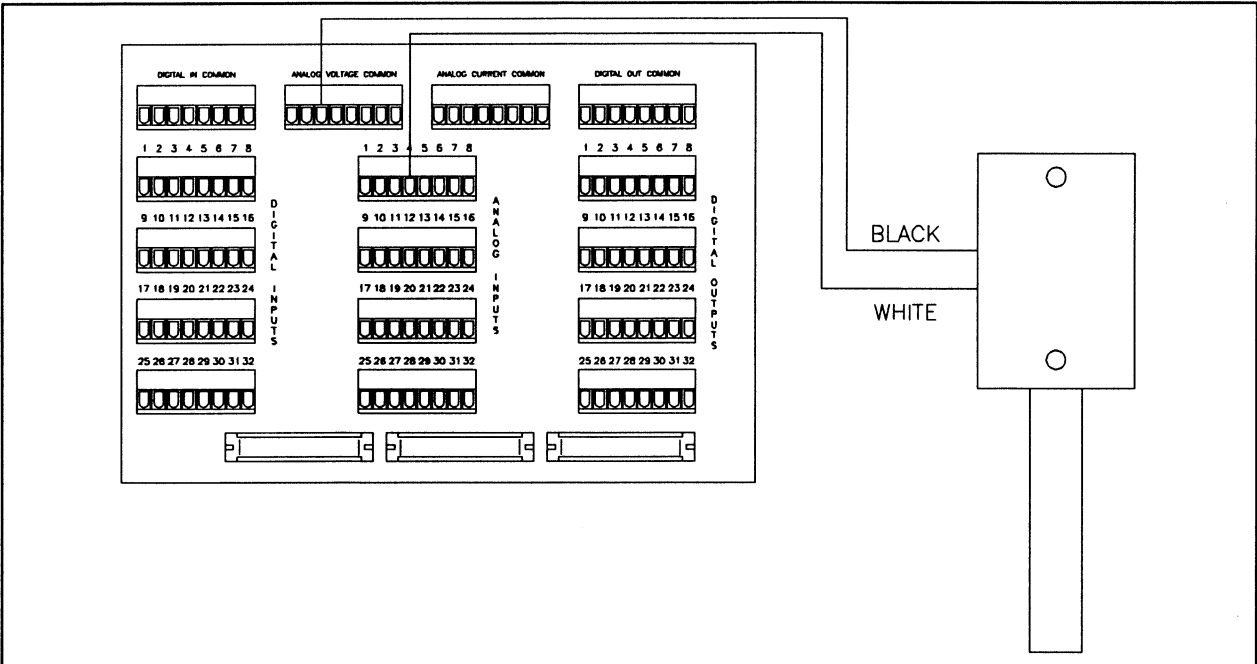


Fig. 3: XL9600 Connections

CALIBRATION

Follow these steps to calibrate the 3282Q.

1. Connect the 3282Q to the Solidyne controller.
2. Determine the ambient temperature in the area where the sensor is located.
3. If, after five minutes, the analog value does not correspond to the ambient temperature, enter an analog offset value for the sensor's input so that the value read by the controller is the same as the ambient temperature in the area of the sensor.

See the instruction manual for the controller you are using for details on how to enter analog offsets.

After calibration, the 3282Q will remain linear and monitor temperatures accurately.

Refer to your authorized SOLIDYNE Wholesaler or Blue Sheet price list for complete ordering information.

If you have additional questions or need further information related to this product or any other SOLIDYNE products, call (800) 648-3980 for order information, or call (708) 394-3333 for technical help and support.

1. Order Part # 3282Q.
2. For use with the Solidyne Micromizer Controller.
3. For use with the Solidyne #8008LAN series of ClipperNet controllers.
4. For use with the Solidyne XL9600 Controller.