CA27 SONIC ANEMOMETER AND FINE WIRE THERMOCOUPLE

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CA27 SONIC ANEMOMETER AND FINE WIRE THERMOCOUPLE

1. CONNECTIONS (FOR SN 1208 AND HIGHER):

Power Cable

Red - +7 - 12 volts unregulated power supply

Black - power supply ground

Signal Cable

Green - wind signal

White - temperature signal

Black - signal ground

Clear - shield

Grounding

Power ground and signal ground leads are tied together on the electronics board. The CA27 head (frame) is connected to circuit ground on sonics built after October 1985.

2. CURRENT DRAIN

7 - 10mA

3. WIND SIGNAL

21X/CR7X

a. Calibration - 1V/m/s

b. Range - ±4.0V

4. TEMPERATURE SIGNAL

21X/CR7X

a. Calibration - 0.25V/°C

b. Range - ±4.0V

c. **NOTE:** Temperature signal is referenced to case body temperature, it is not proportional to absolute temperature.

5. CAUTION

- a. The 0.0005 inch chromel constantan TC junction is extremely fragile.
- b. Care should be taken to avoid any deformation of the silver dish on the acoustical sensors as this can introduce large offsets in the wind signal.
- c. The transducers used in CA27's are damaged by water!

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TO REMOVE TRANSDUCER:



