0.7 ATI / UW Sonic Anemometer
Quick Reference

Sections Include:

"Wiring:" *1*
"Notes on Serializer:" *1*

Wiring:

ATI SONIC CABLING first made for SHEBA (self contained sonic)

|----|(not sure about thesse numbers!)
Amphenol 9739783 JMS27473T10F13S cable connector
Aero 9810A 00J MS27 473T10F35S cable connector (alternate source)
06324 Glenair 320FS001T10-2 9744 connector/backshell spacer
07418-M85049/49-2-10N 9437 backshell
Amp 206708-1 9 socket CPC connector series 1, 13-9 plug with backshell

Amphenol		Amp
1 Chassis	Shield	6
2 AIN.3 (analog in ch #3)		N/C
3 Trig.out	Black (pair w/green)	N/C
4 Ain.2 (analog in ch #2)		N/C
5 Trig.in	Green	N/C
6 Gnd	Black (pair w/white)	N/C
7 Gnd	Black (pair w/yellow)	4
8 RCV	Yellow	2
9 XMIT	Blue	1
10 Ext.reset	Black (pair w/blue)	N/C
11 Known state	White	N/C
12 V.in	Red	8
13 Gnd	Black (pair w/red)	7

Notes on Serializer:

My present heater code is set to cycle over a fixed number of data samples. We decided that the number of samples should be 1200 -> 1 minute. Thus, every minute, the serializer checks that the battery voltage is above a threshold, the sum of the sonic sample flags, and the status of the "heater override" flag and sets the heater appropriately. Since this timing is not synchronized to either the heater override flag being set or to the samples going bad on a sonic, there can be a wait from 0-60 seconds before the heaters are turned on. This is annoying for lab testing, but I feel is adequate for operations.