

HIGH TECH, INC.

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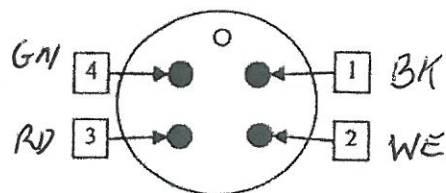
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299/1/57 Hydrophone Information
Model# HTI-90-U/Diff
Connector: Subconn IL-4-M & DLSA-M

03/04/13

Connector Pinout

Pin 1	+12VDC
Pin 2	12VDC Return / Signal Gnd
Pin 3	Signal + Output
Pin 4	Signal - Output



Test Data

Serial Number	Hydrophone Sensitivity dB re: 1V/uPa	Current mA
299463	-174.8	2.22
299464	-174.1	2.23
299465	-173.9	2.21
299466	-174.2	2.24
299467	-174.0	2.22
299468	-174.5	2.23
299469	-174.4	2.2
299470	-174.6	2.22
AVG	-174.3	2.22
VAR	0.1	0.00
STD	0.3	0.01
MAX	-173.9	2.24
MIN	-174.8	2.20
DIF	0.9	0.04

5mV/div

Sensitivity was measured using the comparison method

Reference hydrophone = 999901

Measurements traceable to USRD Newport, RI

Hydrophones listed on this page:

- Leaked less than 0.1uA @ 27VDC after 1hr @ 100PSI hydrostatic pressure
- Passed shield integrity test
- Have the same Polarity Response

Voltage	12VDC
Preamp Mode	Voltage
Source Capacitor	800pF
Termination Resistor	-

Expected Gain	12dB
Response High (-3dB)	20KHz
Response Low (-3dB)	2Hz

Preamp#	Gain (dB)									
	2Hz	5Hz	50Hz	100Hz	1KHz	5KHz	10KHz	20KHz	30KHz	
1	9.62	11.83	12.42	12.42	12.42	12.42	12.43	12.44	12.47	
2	9.60	11.83	12.43	12.44	12.44	12.44	12.44	12.46	12.49	
3	9.55	11.81	12.42	12.42	12.42	12.42	12.43	12.44	12.47	
4	9.57	11.80	12.42	12.43	12.43	12.43	12.43	12.45	12.48	
5	9.58	11.83	12.42	12.42	12.42	12.42	12.43	12.44	12.47	
6	9.54	11.84	12.41	12.42	12.42	12.42	12.42	12.44	12.47	
7	9.57	11.83	12.43	12.43	12.43	12.43	12.44	12.45	12.48	
8	9.68	11.84	12.41	12.42	12.42	12.42	12.42	12.44	12.47	
AVG	9.59	11.82	12.42	12.43	12.43	12.43	12.43	12.45	12.47	
VAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
STD	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
MAX	9.88	11.84	12.43	12.44	12.44	12.44	12.44	12.46	12.49	
MIN	9.54	11.80	12.41	12.42	12.42	12.42	12.42	12.44	12.47	
DIF	0.14	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	

Preamp#	Phase (deg)									
	2Hz	5Hz	50Hz	100Hz	1KHz	5KHz	10KHz	20KHz	30KHz	
1		-159.7	-177.9	-179.0	179.9	178.9	177.8	175.6	173.4	
2		-159.5	-177.8	-179.0	179.9	178.9	177.8	175.6	173.4	
3		-159.9	-177.9	-179.0	179.8	178.9	177.8	175.5	173.4	
4		-159.7	-177.9	-179.0	179.9	178.9	177.8	175.6	173.4	
5		-159.7	-177.9	-179.0	179.9	178.9	177.8	175.6	173.4	
6		-159.6	-177.9	-179.0	179.9	178.9	177.8	175.6	173.4	
7		-159.4	-177.8	-179.0	179.9	178.9	177.8	175.6	173.4	
8		-159.9	-177.9	-179.0	179.9	178.9	177.8	175.5	173.4	
AVG		-159.7	-177.9	-179.0	179.8	178.9	177.8	175.6	173.4	
VAR		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STD		0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MAX		-159.4	-177.8	-179.0	179.9	178.9	177.8	175.6	173.4	
MIN		-159.9	-177.9	-179.0	179.8	178.9	177.8	175.5	173.4	
DIF		0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	