

BIRD DOG II

Hydrophone Test System



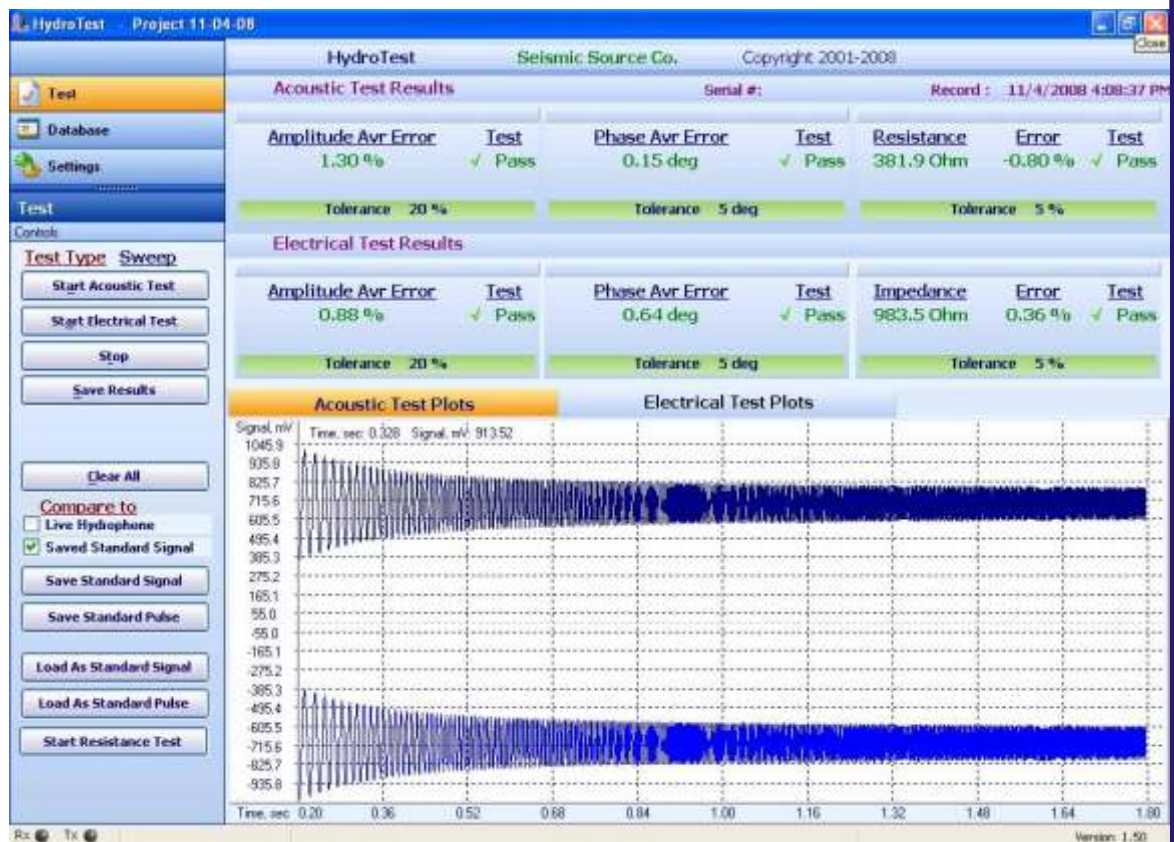
Hydrophone Test System performs both electrical and acoustic tests of the Hydrophone element. Individual hydrophones or streamers sections can be tested. The "HydroTest" software quickly tests each hydrophone element and stores the result to a database. Tolerance settings allow for simple Pass or Fail results.

Hydrophone Test option includes:

- Hydrophone Test Fixture - "Custom Sound Tubes available"
- HydroTest software
- Hydrophone Test Cable

HydroTest program features:

- Easy to use database
- User configured Test Reports



Electrical Tests Include:

- Impedance of user defined frequency
- DC Resistance
- Pulse Response (Amplitude and Phase difference from stored response)

Acoustic Tests Include:

- Comparison to a stored Response
- Comparison to a standard Hydrophone
- Phase and Amplitude Error
- User defined frequency
 - Steady State
 - Swept Sinusoid

The screenshot displays the HydroTest software interface. At the top, it shows 'HydroTest Seismic Source Co. Copyright 2001-2008'. Below this is a table of test results with columns for SerialNum, DateTime, ATFEror, PhaseError, ImpError, ATFErorPulse, PhaseErrorPulse, PhaseTol, Impedance, ResError, ResTol, Resistance, and Comment. A 'Settings' dialog box is open on the right, showing 'Layout settings' and 'Title Visibility' options for various parameters like DAQNum, SerialNum, DateTime, etc. The main window shows 'Acoustic Test Results' and 'Electrical Test Results' sections with summary statistics and tolerance bars. Below these are 'Acoustic Test Plots' and 'Electrical Test Plots' showing waveforms. The interface includes a sidebar with navigation options like 'Task', 'Shutdown', 'Settings', and 'Test Type'.

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Date: 11/5/2008

SeismicSource HydroTest Report											
SerialNum	DateTime	ATFEror	PhaseError	ImpError	ATFErorPulse	PhaseErrorPulse	PhaseTol	ResError	ResTol	Resistance	Comment
11/5/2008 3:22:05 PM		-0.19	0.09				5				
11/5/2008 3:24:01 PM		-0.19	0.09	0.42	0.00	0.43	5				
11/5/2008 3:24:33 PM		0.35	0.35	0.42	0.00	0.43	5				
11/5/2008 3:25:25 PM		0.35	0.35	0.42	0.00	0.43	5	-1.98			
11/5/2008 3:25:52 PM		0.35	0.35	0.46	0.57	0.69	5	-1.98			
11/5/2008 3:26:30 PM		-0.2	0.04	0.46	0.57	0.69	5	-1.98			
11/5/2008 3:30:27 PM		-0.08	0.1	0.32	0.01	0.77	5	-1.64			
11/5/2008 3:30:51 PM				0.46	-0.11	0.9	5				
11/5/2008 3:30:51 PM				0.46	-0.11	0.9	5				
11/5/2008 3:31:19 PM		-0.16	0.06	0.46	-0.09	1.4	5				
11/5/2008 4:27:44 PM				2.78	1.29	1.22	5				
11/5/2008 4:28:00 PM		2.62	1.77	2.78	1.29	1.22	5				
11/5/2008 4:29:41 PM		1.82	1.55	2.78	1.29	1.22	5				
11/5/2008 4:30:19 PM		1.16	1.48	2.78	1.29	1.22	5				
11/5/2008 4:30:47 PM		-0.03	1.13	2.78	1.29	1.22	5				
11/5/2008 4:30:56 PM		0.05	1.12	2.78	1.29	1.22	5				
11/5/2008 4:30:56 PM		0.05	1.12	2.78	1.29	1.22	5				