VISUAL INSTRUCTION ULTRAPROBE 10,000SD Leak Detection





Ultraprobe 10,000SD - Leak Detection: How To Guide

NOTE: UE DMS Software available for download at www.uesystems.com

FUNDAMENTALS



Leak Detection is for Waste Identification and Energy Conservation. Using the Ultraprobe 10,000SD with the Scanning Module (SCM) with the Rubber Focusing Probe and/or the Long Range Module (LRM) Can Support Identification, Quantification, and Organized Repair.







The Four Main Reasons why Leak Detection is an Invaluable Asset to Facilities:

- Safety
- Economics
- Environmental Impact
- Quality Control

SAFETY: WRIST STRAP WORN ALL TIMES



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INITIAL SETUP



To Power On the Ultraprobe 10,000SD, Pull and Hold the Instrument Trigger. Keep Trigger Pulled for Instrument to Remain ON. The Unit Will Power On in the Main Display.







The Ultraprobe 10,000 Will Power On Displaying the Main Display View, Centered at 40 kHz with Sensitivity at 70 (Maximum). (Unless Previously Changed)



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INITIAL SETUP



To Set Up the UltraProbe 10,000SD for Leak Detection, Center the Frequency to 40 kHz Using the Sensitivity Dial. "Click" Dial Until "KHZ" is Flashing, Then Spin to the Desired Frequency.

Once 40 kHz is Reached, Click the Sensitivity Dial Again to Set that Frequency.







Then Insert the Scanning Module (SCM) or Long Range Module (LRM) into the Module Port. Modules are Removed by Pulling Module Straight Out of Port Without Twisting.



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LONG RANGE MODULE



The Long Range Module is Recommended When Scanning at Long Distances. Increasing Safety By Doubling the Scanning Distance Capacity. Assess Inspection Environment Prior to Module Selection.







With a Ten (10) Degree Field of Reception, the LRM is Ideal for Detecting and Confirming Leak Source Locations at a Distance. The LRM is NOT Used to Quantify Leak Values.



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SCANNING PROCEDURE



With the UltraProbe 10,000SD Set at 40 kHz and the Scanning Module Inserted. Scan Designated Area with Even Up/Down and Side-To-Side Motions. Listening for Rushing Air (Leak).





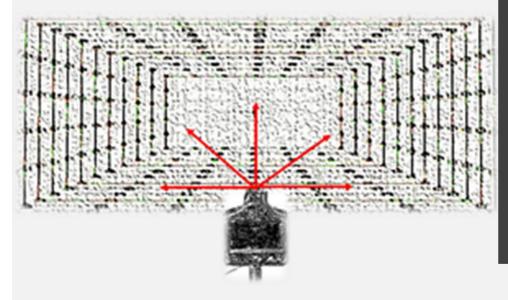


Once a Leak is Heard, Locate it's Source By Using the Gross - to - Fine Method. A Systematic, Step by Step Method to Help Identify and Locate the Source of Leaks.



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GROSS TO FINE METHOD





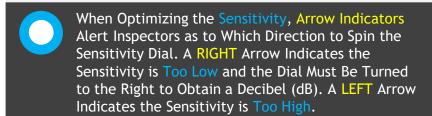
- Start With Sensitivity At Maximum.
- When Detected, Move Toward Leak.
- Lower Sensitivity And Continue Scanning.
- When Location Is Identified, Deploy Rubber Focusing Probe.
- Pinpoint And Isolate Location To Confirm Leak Source.
- Back Up 15" (38.1cm) And Save Decibel Value For Quantification.

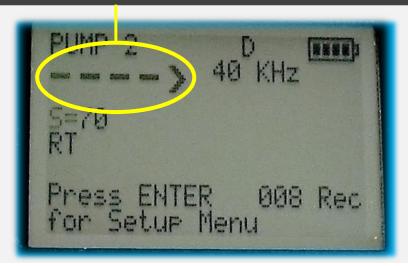


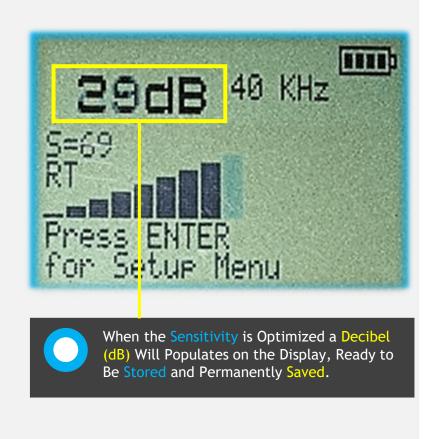
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SCANNING PROCEDURE







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SCANNING PROCEDURE



The Factory Settings of The UltraProbe 10,000SD Allow Inspectors to Name Each Test Point Within Each Route. To Turn This Function OFF And Allow For a "Quick Store" Function, Enter The Setup Menu, "Text Editor Select".







To Enter the Setup Menu Options, Power On The Ultraprobe 10,000SD. Navigate to the Function Bar, "Setup Menu", Then Press ENTER. Then Spin the Sensitivity Dial to Menu #10, Text Editor Select. Click the Dial to Enter the Menu, Spin to the Desired Selection, Then Click to Save. The DMS Software Allows For Route Building.



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SAVING DATA



Using the Gross To Fine Method, Once a Leak Source is Identified, Saving the Decibel Value is Accomplished By Selecting STORE Record Within the Function Bar. Then Pressing the ENTER Button.



NOTE: For Full Detailed Instructions on Storing Record Data, See Visual Instruction: Storing Record Information

Save To Record 004? Turn SENS.: Change Press SENS.: EXIT Press ENTER to STORE

STORE RECORD CONFIRMED



Once ENTER Button is Pressed, the Display Will Indicate the Data Point In Which the Information Will Be Stored To. Press the ENTER Button Again to Permanently Save the Data. A Confirmation Prompt Will Indicate Proper Data Saving.



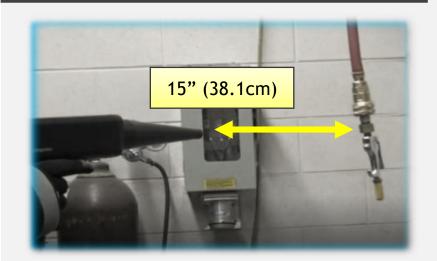
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LEAK QUANTIFICATION



In Order To Quantify a Leaks Decibel (dB) Value into a Monetary Value, Proper Acquisition and Storage is Critical. This Will Help to Avoid Inaccurate Results And Energy Savings.







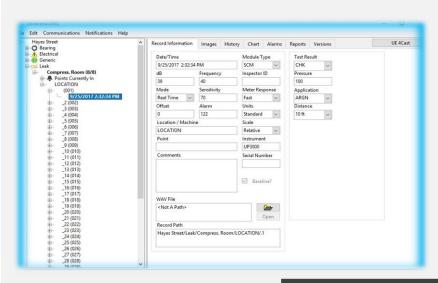
Once a Leak Source is Confirmed and Isolated, Back Up the Ultraprobe Approx. 15 Inches (38.1cm) From the Leak Using the Tip of The Rubber Focusing Probe for Measure. Then Press the ENTER Button to Save the Decibel (dB) Value.



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SUPPORTIVE SOFTWARE



	Air Leaks Repaired		Argon Leaks Repaired		Helium Leaks Repaired		Hydrogen Leaks Repaired		Other Leaks Repaired		Cost Avoidance		
	CFM	Cost	CFM	Cost	CFM	Cost	CFM	Cost	CFM	Cost	Identified	Repaired	% comp
	0.0	\$0.00	0.0	\$0.00	0.0	\$0.00	0.0	\$0.00	0.0	\$0.00	\$3,559.51	\$0.00	0%
											Identified		Ener
Record		Location		Pressure at					Repaire	Work Order	leaks Cost	Size of	Avoida
Number	Group Name	Name	Type of Gas	Leak	dB Reading	Problem Description			d (Y/N)	Schedule#	Avoidance	Leak CFM	(kWi
2	Grainger Robbinsville NJ	LABELING	Air	50	y 9	scaffolding crossing.					\$5.45	0.1	218
1	Grainger Robbinsville NJ	COMPROOM	Air	125	45	leak on the valve body meets the pipe.					\$141.89	3.3	567
3	Grainger Robbinsville NJ	LABELING	Air	50	21	the belts.					\$22.75	0.5	910
4	Grainger Robbinsville NJ	LABELING	Air	50	13	Solenoid between the belts at DVT 10 M7					\$10.13	0.2	405
5	Grainger Robbinsville NJ	LABELING	Air	10	11						\$2.51	0.1	101
8	Grainger Robbinsville NJ	LABELING	Air	100	18	Valve on the backside of the Conveyor					\$34.66	0.8	138
9	Grainger Robbinsville NJ	BRIDGE	Air	100	54	tpo the dB's on the picture.					\$161.42	3.7	645
10	Grainger Robbinsville NJ	BRIDGE	Air	100	27	on the right side regulator					\$61.15	1.4	244
11	Grainger Robbinsville NJ	MEZZANIE	Air	100	36	L1.					\$91.49	2.1	366
12	Grainger Robbinsville NJ	MEZZANIE	Air	50	22	coulmn 19D at asset 0363-PS-OK					\$24.61	0.6	984
13	Grainger Robbinsville NJ	FLOOR	Air	50	50	Brake under the conveyor next to Column					\$98.28	2.3	393
14	Grainger Robbinsville NJ	FLOOR	Air	50	36	17D. 6 dB's added for Doubling the					\$56.48	1.3	225
15	Grainger Robbinsville NJ	FLOOR	Air	100	41						\$109.76	2.5	439
16	Grainger Robbinsville NJ	FLOOR	Air	125	30	blaster in the	maintenace si	hop.			\$82.42	1.9	329
17	Grainger Robbinsville NJ	FLOOR	Air	100	17						\$31.99	0.7	128
18	Grainger Robbinsville NJ	FLOOR	Air	50	56	Regulator un	der the convey	Or.			\$118.98	2.8	475
19	Grainger Robbinsville NJ	FLOOR	Air	100	56	dB's to the value.					\$169.86	3.9	679
20	Grainger Robbinsville NJ	FLOOR	Air	50	42	Leaking from Regulator on the Syracuse					\$73.24	1.7	293
21	Grainger Robbinsville NJ	FLOOR	Air	50	41		stance 1 time				\$70.33	1.6	281
22	Grainner Robbinsville N I	FLOOR	Air	50	21	one time add	A C ADIA				¢43.00	1.0	170



The DMS Software Allows For Data Storage and Report Generation. Download the DMS Software From UESystems.com. Once Downloaded, Inspectors Can Create Routes For Designated Inspection Locations Maintaining Organization and Directly Supporting Repair.



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LEAK SURVEY SMART PHONE APP







The Leak Survey App Allows For Immediate Leak Quantification and Report Generation. The App Communicates Directly With an Inspectors Email and Promotes Immediate Communication of Findings. The Leak Survey App Will Also Communicate With Smart Phone Cameras Allowing Photos Of Leak Sources to Be Incorporated into the Reporting Process.



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