Predictive Technology

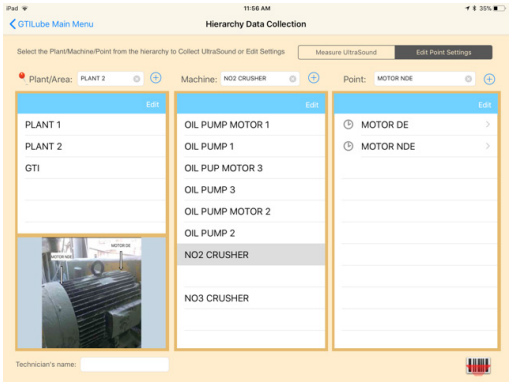
GTI Lube

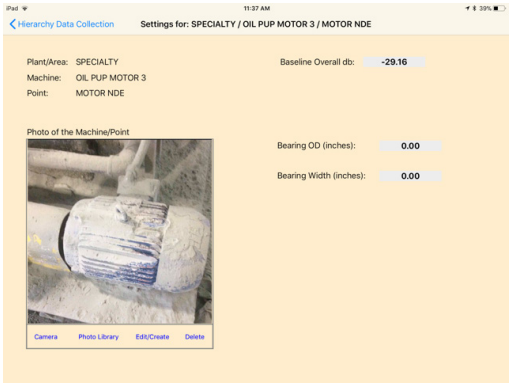
GTILUBE:

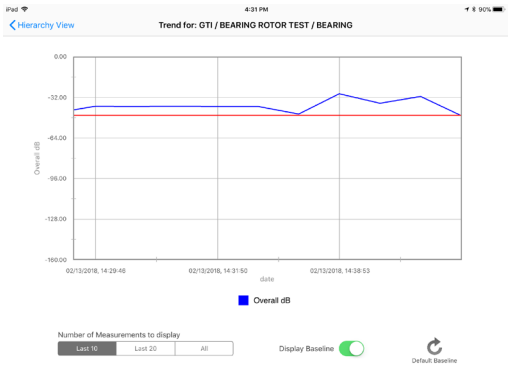
Route-based ultrasound lubrication under and over lubrication of bearings are major causes of bearing failure. GTILube is a simple app that uses UE Systems sensor technology to baseline and measure changes in the ultrasound signal to determine when a bearing needs lubrication. GTILube uses NASA standards for ultrasound measurement – an 8 dB increase signals a need for lubrication. A 12 dB increase indicates early bearing failure.

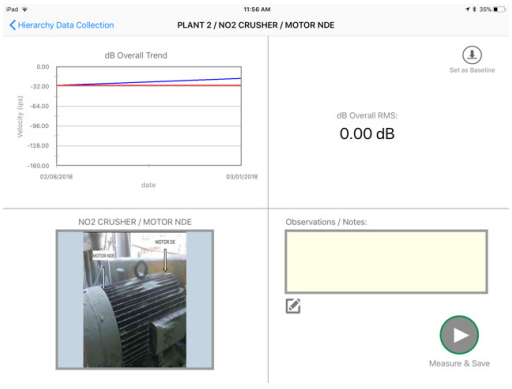
GTILube includes a calculator for determining an acceptable amount of lubrication for the bearing based on its geometry. This value is displayed on-screen when the measurement exceeds the Alert level. Users can also enter and display the type of grease for each bearing.

GTILube uses GTI Hierarchy technology for simple set up of routes and measurements. Bearing geometry is added during measurement set up. Users can accept the initial measurement as a baseline or enter a custom baseline value.









FOR LEAK DETECTION

OVERVIEW:

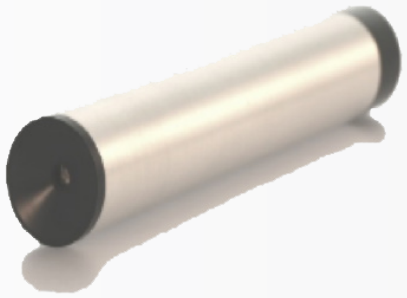
Ultrasonic Analyzer is a real-time spectrum, spectrogram, oscilloscope and octave RTA analyzer for your iPad. It provides a visual representation of many ultrasounds using a sampling rate up to 384kHz. The app can record, analyze and use slow down playback for sounds normally impossible to hear. The app can also analyze any imported audio file into a spectrogram context.

Ultrasonic is a great tool for detecting air leaks. The ultrasonic sensor plugs directly into the iPad's Lightning port. It is a highly directional sensor enabling very precise readings.

This application takes full advantage of the iPad's processor. For maximum resolution an iPad Air or Air 2 is required; the app utilizes the newer iPad's 64-bit processor.

SPECIFICATIONS:

- 250k sampling per second
- True 16 bits resolution
- Frequency range up to 100 KHz – 125 KHz
- MEMS high sensitivity surface mount wide-band ultrasonic acoustic sensor
- High quality and low noise analog amplification
- 32 bit 80 MHz integrated microcontroller
- Dimensions: 130 mm length x 20 mm diameter
- 8th order anti-aliasing low pass filter
- Filter out noise below 20kHz



Available for **$699**: includes sensor, cable and app

DATA

	LOOP POWERED	CURRENT OUTPUT
POWER SUPPLY:	18-30 V (30 MA MAX)	18-30 V
CURRENT DRAW:	4-20 MA (25 MA MAX) PROPORTIONAL TO ULTRASOUND SIGNAL DETECTED	30 MA MAX
OUTPUT: *OPTIONAL:	DEMODULATED/HETERODYNED*	DEMODULATED/HETERODYNED* 4-20 MA PROPORTIONAL TO ULTRASOUND SIGNAL DETECTED
AMBIENT TEMPERATURE RANGE:	32°-122°F (0°-50°C)	
DETECTION FREQUENCY:	40 KHZ (± 2 KHZ)	
NON-VOLATILE SENSITIVITY ADJUSTMENT:	PUSHBUTTON CONTACT CLOSURE OR TTL CONTROL SIGNAL	
CABLE:	RF SHIELDED 10 (3M)	
TRANSDUCER:	PIEZOELECTRIC	
METHOD OF ATTACHMENT:	10/32 THREAD MOUNTING HOLD	
HOUSING:	STAINLESS STEEL: WATER RESISTANT & DUST PROOF, MEETS NEMA 4X REQUIREMENTS. EXCEEDS IP 54 RATINGS	

GTI Spindle Technology

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