

UE Ultra-Trak 750™

Senses Ultrasonic Amplitude Changes

Guard Against *Unplanned Downtime!*



The UE Ultra-Trak 750

provides early warning of • mechanical failure • valve leakage • flow disruption and • arcing by detecting changes of ultrasonic amplitude.

Ultra-Trak is ready to guard against unplanned downtime and product loss the minute it is installed.

Ultra-Trak passively monitors ultrasounds produced by operating equipment. It can be readily connected to alarms or recorders for datalogging, thanks to its 4-20 mA current output, coupled with a pure demodulated output.

Housed in stainless steel, the rugged **Ultra-Trak 750** is water resistant and dust proof which means it can be externally mounted in some of the most challenging environments. Couple this with an extraordinarily wide dynamic range of 120 dB and sensitivity adjustment, this sensor is ready to meet your most demanding sensing needs.

Alarm in *Real Time!*

... with the unique Ultrasonic

UE Ultra-Trak 750



Typical applications include:

- **Valve Leakage/Blowby Warning**
- **Bearing Monitoring (including lubrication warning)**
- **Detection of Onset of Arcing in Switchgear**
- **Partial Discharge Detection**
- **Flow Disruption**
- **Cavitation Monitoring/Alarm**
- **Shut Down Warning**
- **Trend or Alarm Amplitude Rise/Fall Off**

UE Ultra-Trak 750

Features:



How the UE Ultra-Trak 750 Works

The **Ultra-Trak** senses high frequency emissions produced by operating equipment. A baseline threshold can be set within a wide dynamic range of 120 decibels. Once set the Ultra-Trak then monitors changes of ultrasonic amplitude within a range of 40 decibels. The Ultra-Trak can be connected with other devices to provide alarms or for tracking potential problems over time. In some instances the Ultra-Trak can be used for sound level increases, such as to warn of onset of valve leakage or bearing failure. Amplitude fall-off can be used to signal line flow disruption or alarm of machine shutdown.

- ✓ **Demodulated Output for Analysis.**
- ✓ **Dynamic Range:** 120 dB
- ✓ **Sensing Range 40 dB:** Once the sound level is set, there is a 40 dB monitoring range.
- ✓ **Peak Frequency Response:** 40 kHz
- ✓ **Outputs for External Datalogging or Sound Recording.**

UE Ultra-Trak 750 Specifications

	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:	Demodulated/heterodyned*	Demodulated/heterodyned* 4-20 mA proportional to ultrasound signal detected
*Optional		
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	

Product specifications subject to change without notice.

Patent Applied For

Optional software available to monitor or datalog 1 or multiple units

TO LEARN MORE, CALL TOLL FREE:

1-800-223-1325



ue
SYSTEMS inc.
The Ultrasound Company

14 Hayes Street, Elmsford, NY 10523-2536 USA
Tel: +914-592-1220 • Fax: +914-347-2181 • Toll Free: 1-800-223-1325
Email: ue@uesystems.com • Internet: <http://www.uesystems.com>

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