

ULTRA-TRAK 750™

Senses ultrasonic amplitude changes and guards against unplanned downtime and product loss!

By detecting changes of ultrasonic amplitude the Ultra-Trak 750™ provides early warning of:

- Mechanical failure
- Valve leakage
- Flow disruption
- Internal arcing/partial discharge

Reap benefits from the moment you install the Ultra-Trak 750™, as it passively monitors ultrasounds produced by operating equipment. Ultra-Trak 750™ is easily connected to alarms or recorders for data logging because of its 4-20 mA current output, coupled with a demodulated output.

The rugged Ultra-Trak 750™ is housed in stainless steel. Because it's water resistant and dust proof, it can be externally mounted in practically any challenging environment. Coupled with a wide dynamic range of 120 dB and sensitivity adjustment, this sensor is ready to meet your most demanding sensing needs.



The Ultra-Trak 750™ mounted



Monitor cavitation, bearings, and valves

Typical Ultra-Trak 750™ applications include:

- Valve Leakage/Blow-by 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



Ultra-Trak 750™ FEATURES

- Demodulated Output for Analysis
- Dynamic Range: 120 dB
- Sensing Range: 40 dB Once the sound level is set, there's a 40 dB monitoring range
- Peak Frequency Response: 40kHz
- Outputs for External Data logging or Sound Recording
- IP 64 rated

Ultra-Trak 750™ Specifications

Power Supply	Loop Powered	Current Output
Current Draw	18-30 V (30 mA max) 4-20 mA (25 mA max) proportional to ultrasound signal detection	18-30 V 30 mA max
Output	Demodulated/heterodyned	Demodulated/heterodyned 4-20 mA proportional to ultrasound signal detected
Ambient Temperature Range	0 °C - 50 °C (32 °F - 122 °F)	
Detection Frequency	40 kHz (± 2 kHz)	
Non-Volatile Sensitivity Adjustment	Pushbutton contact closure or TTL control signal	
Cable	RF Shielded 3 m (10")	
Transducer	piezoelectric	
Method of Attachment	10/32 female thread mounting	
Housing	Stainless steel: water resistant and dustproof, meets NEMA 4X requirements. Exceeds IP 64 ratings.	

How the Ultra-Trak 750™ Works:

The Ultra-Trak 750™ 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 750™ then monitors changes of ultrasonic amplitude within a range of 40 decibels
- The Ultra-Trak 750™ can be connected with other devices to provide alarms or for tracking potential problems over time
- The Ultra-Trak 750™ can be used for sound level increases, for example 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



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Ultra-Trak 750: Covered by one or more of the following patents: 0151115; 0303776; 0315199; 1206586; 1297576; 1881263; 2562758; 2689339; 4416145; 4823600; 5955670; 6122966; 6339961; 6341518; 6415645; 6655214; 6707762; 6804992. UE Systems is committed to continual product improvement; therefore specifications are subject to change without notice. Warranty details are available by request.