

# ULTRA-TRAK 750™

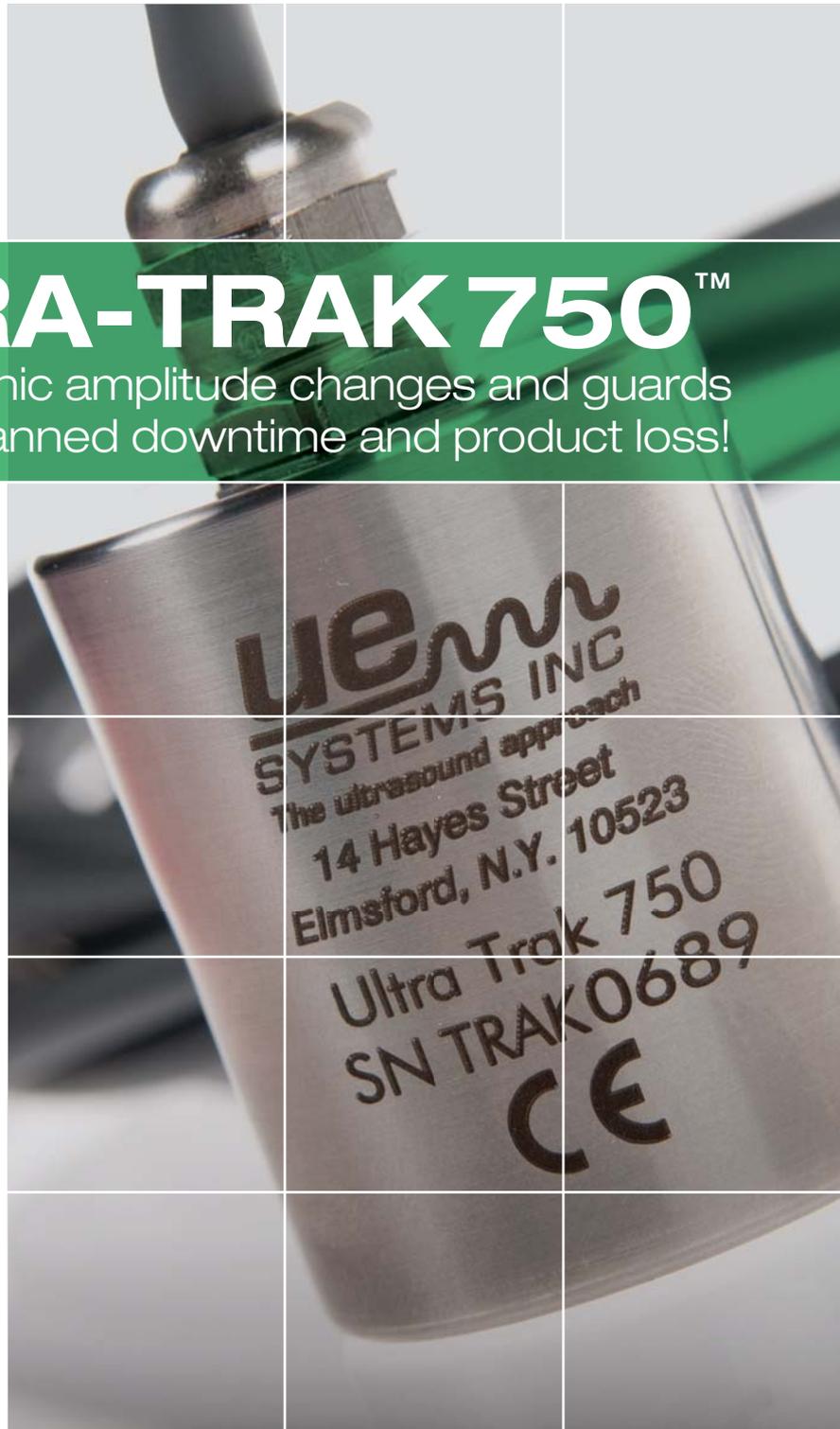
Senses ultrasonic amplitude changes and guards against unplanned downtime and product loss!

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

|  | Loop Powered   | Current Output   |
|--|--|--|
| <b>Power Supply</b>                        | 18-30 V (30 mA max)  | 18-30 V  |
| <b>Current Draw</b>                        | 4-20 mA (25 mA max) proportional to ultrasound signal detection                                    | 30 mA max  |
| <b>Output</b>                              | Demodulated/heterodyned  | Demodulated/heterodyned 4-20 mA proportional to ultrasound signal detected |
| <b>Ambient Temperature Range</b>           | 0 °C - 50 °C (32 °F - 122 °F)  |  |
| <b>Detection Frequency</b>                 | 40 kHz (± 2 kHz)   |  |
| <b>Non-Volatile Sensitivity Adjustment</b> | Pushbutton contact closure or TTL control signal   |  |
| <b>Cable</b>                               | RF Shielded 3 m (10')  |  |
| <b>Transducer</b>                          | piezoelectric  |  |
| <b>Method of Attachment</b>                | 10/32 female thread mounting   |  |
| <b>Housing</b>                             | 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



[www.uesystems.com](http://www.uesystems.com)

MASTER DISTRIBUTER:

**Ultra-Tek Pty Ltd**



**A:** Unit 5 / 2-4 Maiella Street  
Stapylton QLD 4207

**T:** 0400 709 800

**E:** [info@ultra-tek.com.au](mailto:info@ultra-tek.com.au)

**W:** [www.ultra-tek.com.au](http://www.ultra-tek.com.au)

UE Systems Inc. • 14 Hayes St. • Elmsford, New York • USA 10523

T: +1 914 592 1220 • E: [info@uesystems.com](mailto:info@uesystems.com) • [www.uesystems.com](http://www.uesystems.com)