

# SDT200

THE FIRST STEP TO PREDICTIVE MAINTENANCE



AN ULTRASONIC DETECTOR, SEVERAL APPLICATIONS

## PREVENTIVE MAINTENANCE



Bearing condition monitoring



Real time lubrication monitoring



Pump cavitation detection



Gears condition monitoring



Partial discharges localization



Tightness testing

## ENERGY SAVINGS



Compressed air leak detection



Steam trap inspection



Detection of internal leaks in valves



Void/gas leak detection



Ultrasound Solutions

# SDT200 ULTRASONIC DETECTOR FEATURES

## Functionalities

- 4 condition indicators for a thorough diagnosis whatever the application: RMS, maxRMS, Peak and Crest factor.
- Memory of 4.000 time- and date-stamped measurements distributed over 500 locations and classified per sensor.
- Data Dump software for transfer to PC.



## Optional sensors

- Internal laser temperature sensor

### Airborne sensors :

- Flexible sensor
- Parabolic sensor with laser beam (4 to 60 meters range)

### Contact sensors :

- Threaded sensor with mounting pads or magnetic mount
- Needle contact sensor

## Base kit

- SDT200 detector equipped with an internal ultrasonic sensor
- Noise-isolating Peltor headphones
- Battery and charger
- USB cable and DataDump software
- Systainer 3 transport case
- Shoulder strap and leather belt attachment



## Optional accessories :

- Extended distance cone
- Ultrasound transmitters



The SDT200 detector is also available in ATEX version for potentially explosive environments, as are the flexible sensor, the contact probe, the threaded sensor and the headphones.  
ATEX Directive 94/9/CE (II 1 G / Ex ia IIC T3/T2 Ga).

## SDT, leader in acoustic detection for industrial maintenance

SDT provides ultrasound solutions that help our customers gain a better understanding about the health of their factory. We help them predict failures, control energy costs, and improve product quality while contributing to the overall reliability of their assets.



**Ultrasound Solutions**

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The SDT200 is part of the SDT products range that combines robustness and high performance. It is available through our worldwide authorized distributors network.

# SDT200

## Ultrasonic Detector



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...what industry listens to

### Technical Specifications

Function	Multifunctional Ultrasonic Detector
Display	Graphic LCD (128 x 64) with backlight
Keyboard	12 function keys
Built-in sensors	Internal Ultrasonic Sensor (Standard); Non-Contact Temperature Sensors <b>(Optional)</b>
External sensors	Lemo 7 pin external sensor input
Memory	4000+ measurements spread over 100 memory locations
Measurement types	Max RMS/Celsius/Fahrenheit
Frequency range:	40 kHz (2kHz bandwidth)
Bandwidth:	(-3dB) 2kHz
Communication	USB Interface
Amplification	Adjustable from 0 to 120 dB
Measuring range, accuracy & resolution	-20dB $\mu$ V to 120dB $\mu$ V, $\pm$ 0.5 dB $\mu$ V, resolution 0.1 dB $\mu$ V
Signal to noise ratio, Response Time	-5dB $\mu$ V typical, >10 $\mu$ s
Software	DataDump PC Transfer Application
Operating temperature	-15 °C to +60 °C / 14 °F to 140 °F non condensing
Housing	Extruded aluminum with shock-proof rubber protections
Weight	830 g / 29.3 oz. (with battery and holster included)
Dimensions	226 x 90 x 40 mm / 8.90 x 3.54 x 1.57 inches (L x W x H)
Headphones	130 dB, noise isolating
Auto power down	Auto power down after preset time
Battery pack (*)	Rechargeable NiMH battery. Nominal Capacity: 4.4 Ah
Life span	500 to 1,000 charge/discharge cycles
Anticipated usage with full	More than 8 hours without backlighting
Recharge time	6 to 7 hours
Protections	Short-circuit, reverse polarity and temperature protected
Conformity	Built in conformity with the applicable European Directives: Electrical equipment for measurement IEC EN 61010-1 EMC Directive 2004/108/CE Low voltage Directive 2006/95/CE

### Specific data for ATEX version

ATEX certification	II 1 G Ex ia IIC T3/T2 Ga, conform to IEC 60079-0, 60079-11 and 60079-26
Operating temp	-15°C to 50°C (T3) or -15°C to 60°C (T2).

The information herein is believed to be accurate to the best of our knowledge. Due to continued research and development, specifications of this product can change without prior notice. Copyright SDT. Version 04/2012

## SDT Ultrasound Solutions

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