



**Datasheet SDT270 receiver**

**Part numbers:**

FSR270SB (standard version) and FSR270ASB (ATEX version) : Includes SDT270 receiver, battery charger, noise isolating headphones, carrying case and USB cable


**General Description:**

The SDT270 ultrasound detector features multiple significant innovations dedicated to the improvement of predictive maintenance programmes. Manufactured by and for maintenance professionals, the SDT270's innovations show our commitment to the production of intelligent and progressive instruments.

Not only is the SDT270 the first portable ultrasound detection device to include both a built-in temperature sensor and a laser tachometer, but it's also the first one to feature an onboard SQL database to capture and manage survey data.



**Technical Data:**

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| <b>Function</b>                        | Multifunction detector  |
| <b>Display</b>                         | Graphic LCD with backlighting (128 x 64 pixels)   |
| <b>Keyboard</b>                        | 12 function keys  |
| <b>Built-in sensors</b>                | Ultrasonic sensor<br>Temperature sensor (optional)<br>Tachometer (optional)   |
| <b>Measurement channels</b>            | 2 channels for external sensors via Lemo 7 pin connectors   |
| <b>Housing</b>                         | Extruded aluminium  |
| <b>Protective holster</b>              | Fluorosilicone, hydrocarbon-resistant   |
| <b>Operating temperature range</b>     | -15 °C to +60 °C / 14 °F to 140 °F, non condensing  |
| <b>Dimensions</b>                      | 226 x 90 x 40 mm / 8.9 x 3.54 x 1.57 inches   |
| <b>Weight</b>                          | 830 g / 29.3 oz (with protective holster)   |
| <b>International Protection rating</b> | IP30  |
| <b>Communication</b>                   | USB interface<br>Ethernet 10/100 Mbps (Standard version;<br>Ethernet not available on ATEX version).                                  |
| <b>Power down</b>                      | Auto power down after pre-set time  |
| <b>For ATEX versions</b>               | Denomination: C €0492  II(1) G Ex ia II C T3/T2 Ga |

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| <b>Data Logger</b>     | <b>SDT270 SS and SD (comes with DataDump software):</b> <ul style="list-style-type: none"> <li>• 100 measurement nodes for a total capacity of 4 000 measurements</li> </ul>   |
|                        | <b>SDT270 DD (comes with DataDump software):</b> <ul style="list-style-type: none"> <li>• 100 measurement nodes for a total capacity of 4 000 measurements</li> <li>• dynamic measurements: 6 675 seconds with US sensor (8 kHz sampling rate)</li> </ul>  |
|                        | <b>SDT270 SU used with Ultranalysis Suite software:</b> <ul style="list-style-type: none"> <li>• more than 10 000 measurement nodes with static data</li> </ul>  |
|                        | <b>SDT270 DU used with Ultranalysis Suite software :</b> <ul style="list-style-type: none"> <li>• static measurements: more than 10 000 measurement nodes</li> <li>• dynamic measurements: 6 675 seconds with US sensor (8 kHz sampling rate)</li> <li>• 13 350 seconds in accelerometry (10Hz - 1kHz) or 1 668 seconds in accelerometry (10Hz - 10kHz)</li> </ul>       |
| <b>Battery pack</b>    | Rechargeable battery: 8 elements, 4.8 V, NiMH<br>Nominal capacity: 4600 mAh<br>Lifespan: 500 to 1000 charge-discharge cycles<br>Autonomy: 8 hours without backlight<br>Charging time: 6 to 7 hours<br>For optimum performance, this battery pack is equipped with an electronic management system (includes digital serial number, capacity and temperature management). |
| <b>Headphones</b>      | Allows working with surrounding noise levels up to 130 dBA   |
| <b>Battery charger</b> | Charger type: specific for SDT270NiMH battery pack<br>Power supply: 230 or 110 VAC +15% / -10% - 50/60 Hz<br>Output voltage: +4.0 or 8.5 V DC (depends on operating mode)<br>Current: 1000 mA maximum<br>Recharge time: 5 to 6 hours typical in fast mode / 12 to 14 hours typical in slow mode<br>Protection: temperature protected, limit set at 60°C / 140 °F         |

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| 02          | BDK 2015-07-13 | Ethernet not available on ATEX version | GEL             |
| 01          | JPD            | Original version                       | GEL             |
| <b>Ver.</b> | <b>Editor</b>  | <b>Nature of modification</b>          | <b>Verified</b> |