PTSC INDUSTRIAL CARE

LD 300

LD 300 Ultrasonic Leak Detector

Leaks in compressed air systems can cause thousands of Euro losses. The detection of leaks is an important maintenance requirement which traditionally can be done by soap water or by an US detector like LD 300.

Operating principle:

When gases are leaking through tubes and tanks an ultrasonic sound is produced which can be detected by LD 300 even from several meter distance. LD 300 transforms these inaudible signals into a frequency which can be easily heard by using the supplied noise isolated headset. The integrated laser pointer helps to spot the leak from distance. In unpressurized systems an ultrasonic tone generator can be used whose sound will leak through small openings.

Leak detection with separated sensor

Applications:

- Leak detection in air, vacuum, refrigerants, simply of any gas!
- Steam trap testing
- Insulation test of doors and windows
- Water leaks
- Detection of partial electrical discharges causing damages on insulations

Leak detection with focus tube

Leak detection with focus tip

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Cost saving:

Compressed air is one of the most expensive energy forms.Only in Germany 60,000 pneumatic systems consume 14,000,000,000 kWh electricity every year. 15% to 20% of this could easily be saved (Peter Radgen, Fraunhofer Institute, Karlsruhe). A large portion of these costs are caused by leaks in compressed air systems. The air "escapes " unused.
Calculation example at 6 bar:
1 hole of 1 mm diameter = 270 EUR/year

Contents of Set

Description	Order No.
LD 300 Leak Detector set consisting of:	**0601 0103**
LD 300 Leak Detector	0560 0102
Sensor unit	0605 0001
Noise isolated head set	0554 0102
Focus tube and focus tip	0530 0101
Cable to detach sound probe from instrument	0553 0101
Battery charger	0554 0001
Transport case	0554 0101
Addition al accessories not included in the set:	
Ultrasonic Tone Generator	0554 0103
Telescope extension with cable	0530 0102

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