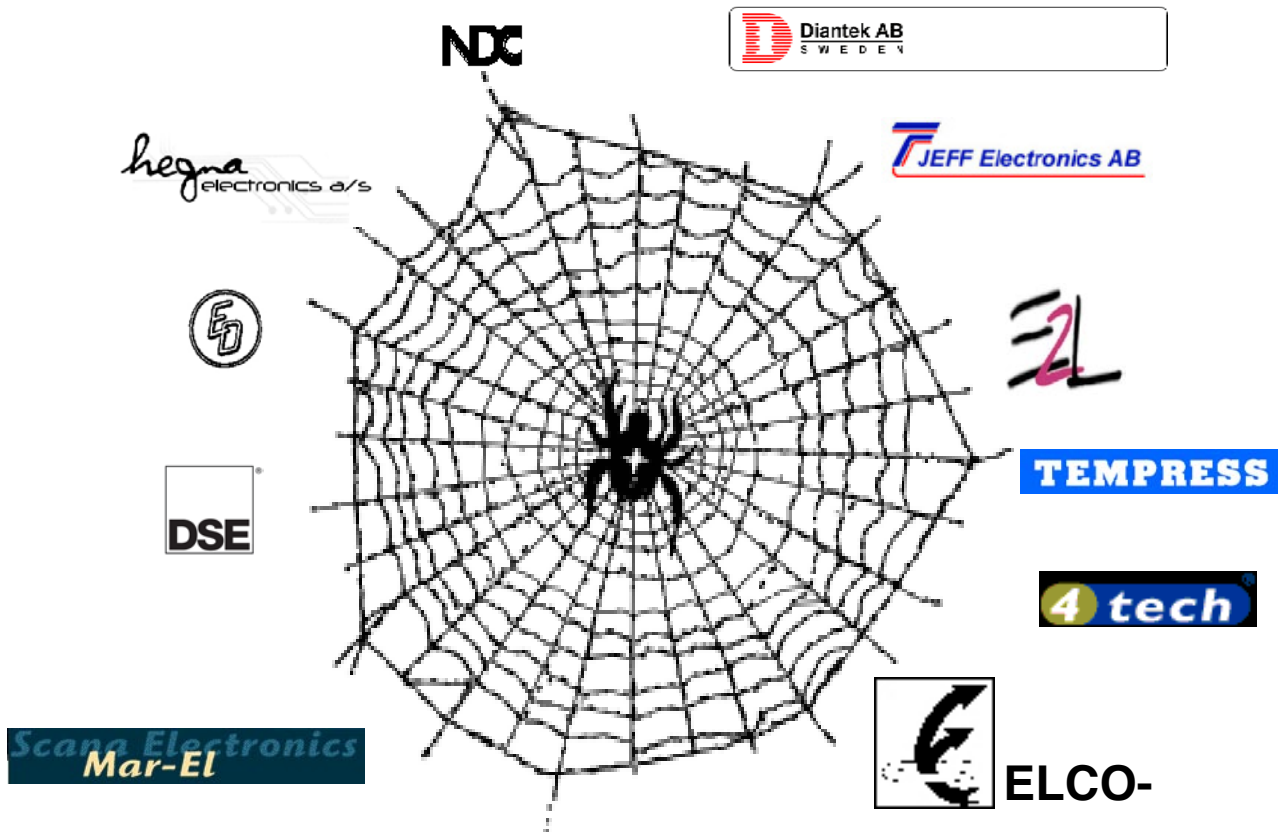


# IMSAB COMPONENT GUIDE for industry and shipping



## ULTRASCAN Leak Detection



# ULTRASCAN - Leak Detection

manufacture E2L



## APPLICATIONS:

*A new generation of instrument combining the latest technology with many years experience, to deliver the best performing and easiest to use leak detector available.*

The presence of leaks in compressed air, steam and other high pressure plant has two major consequences: cost and safety.

The cost of producing steam and air is increased proportionally to the amount of losses through leaks; the less a plant leaks, the more efficient it is. Without an active maintenance programme typically 20% of boiler generated steam can be lost through leaks. Compressed air provides similar figures and is normally detected by pressure loss at the compressor, not by pin-pointing the leak.

Safety strategies when dealing with leaks are essential. Super-heated steam and compressed air are often invisible and obviously highly dangerous to personnel working in such environments

The ULTRASCAN Leak Detector is designed to solve both of these areas of concern. It detects leaks by focussing on the ultrasonic noise they generate. From years of experience the instrument is the most sensitive of its type and can detect the smallest of holes or cracks in pipework and vessels. The unit auto-ranges so the operator is always working at maximum sensitivity to suit their particular environment.

The presence of leaks is indicated by three simple lights on the front panel and also through the headset so that the operator can listen to the leak.

ULTRASCAN comes complete with three different waveguides for performing general area surveys; fine 'pin-point' analysis, and detection of leaks in encased pipework. Application of a laser pointing device gives accurate remote indication of the leak.

- Simple, easy to use controls
- Audio detection of leaks
- Simple visual indication of leaks
- Small, portable, hand held unit
- Automatically filters out noise
- Autoranging gain control
- 30° and 3° waveguide attachments
- Flexible waveguide attachment
- Rechargeable batteries
- Ergonomic design
- Belt clip attachment
- Can be used with a laser pointer

## TECHNICAL DETAILS

Maximum Range:	50m typical (leak size dependant)
Maximum Gain:	143dB
RF response:	38kHz to 4kHz (±3dB) 10kHz <-40dB 100kHz <-40dB
Effective scan area:	30° cone/3° cone/enclosed volume (Depends on waveguide)
Autoranging:	Flashing green LED until set
Display:	3 red LEDs proportional to signal
Audio:	Earpieces with volume control
Low Battery warning:	Yes, fast flashing green LED
Power Source:	Rechargeable
Power saving:	Timeout to switch off, or ON/OFF
Material:	ABS and Acetyl Copolymer
Environmental:	IP44
Size: Body:	128 x 70 x 28mm
Waveguide:	60 x 19mm diameter

## ORDERING INSTRUCTIONS

P311-010-000 ULTRASCAN – Leak Detection

Extra accessories:  
Hearing-instrument  
Laser pen



**OPERATION**

- Choose a waveguide (30° for general scans)
- Switch the instrument 'ON'
- Press 'SEEK'
- Wait till green LED stops flashing
- Adjust the audio volume until it is comfortable
- Point the waveguide at suspect equipment
- Observe activity on the red LEDs, and listen for leaks
- Identify leaks
- If the source is not obvious and needs a more accurate pointer change to the 3° waveguide and repeat

