



# Procon Engineering Ltd

(Incorporating: Defiant - Negretti - Inflo - Lintvalve)



## Type T96 Boiler Acoustic Steam Leak Detection Equipment

**continuous monitoring**

**provides early warning alarms**

**acoustic (air borne) and structure borne versions**

**essential for boiler preventative maintenance**

**provides both fully processed 4-20mA of 54-114dB and RMS Audio Signals**

**low cost entry - fully expandable**

### Optional:

- Connection to the Procon Data Acquisition System
  - Connection to Station DCS, directly by 4-20mA or selected Fieldbus
  - Station DCS Consultancy
  - Loudspeaker Unit
  - Waveguide Air Purge Facility
  - Paperless Chart Recorder and Display
  - Alarms for Low Signal, Possible and Probable Leaks and other Abnormal Boiler Sounds
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# technical specification sheet

## Type T96 Boiler Acoustic Steam Leak Detection Equipment

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There are two types of channel available: the **Airborne Acoustic Version** and the **Structure Borne Version**.

### The Airborne Acoustic Version

This type of channel continuously monitors the internal noise of the boiler using a special microphone and signal process head amplifier.  
The system has a wide frequency band and, when calibrated, can provide both leak detection and leak location between similar channels.  
This type of detector may require a hole in the water-wall web, dependant on installation.

#### This version consists of the following components:

- Tubular Waveguide with Heat Insulator
- Transducer and Lead
- Head Amplifier Type CA
- The output is 4 to 20mA covering the range of 54 to 114db (1000:1 ratio).

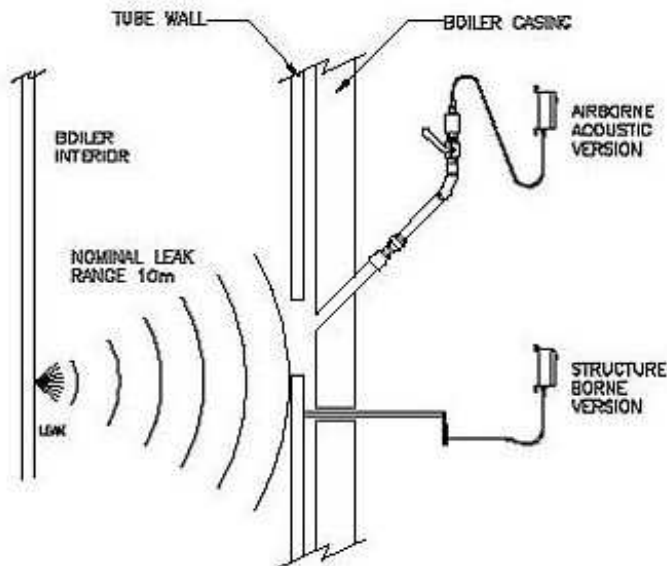
### The Structure Borne Version

This type of channel continuously monitors the vibration in the structure of the boiler that is created by a leak within the boiler. It uses a special transducer and signal processing head amplifier, and is easy to fit to the outside of a water-wall. This type of detector is not calibrated and does not provide leak location.

#### This version consists of the following components:

- Solid Waveguide attached to the outside of the boiler
- Transducer and Lead
- Head Amplifier type CU
- The output is 4 to 20mA covering a nominal range of 40dB (100:1 ratio).

### Installation Overview



Procon Engineering's policy is one of continuous product enhancement. We therefore reserve the right to incorporate technical modifications without prior notification.

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For details of the Procon Data Acquisition System, please refer to our T96XP specification brochure.

