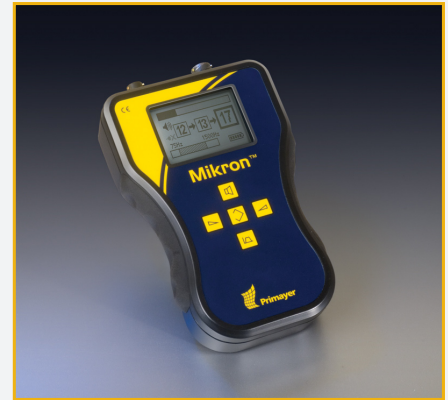




Operation of the ADS Mikron Leak Locator

The ADS Mikron is a high performance, simple-to-use leak locator. The design is based upon an advanced sensor and incorporates low-noise processing electronics to give excellent acoustic performance over a wide frequency range. Mikron incorporates a Minimum Noise Level measurement system.



ADS Mikron Hand-held Leak Locator.

Connectors

Plug the sensor into the top right-side socket of the amplifier. The sensor must only be connected or disconnected whilst the amplifier is turned off. This socket is also used for the battery charging.

The left-side socket is used to connect the headphone.

Control Buttons

| Button | Function |
|--------|---|
| | Press-to-listen When pressed the current minimum noise level is shown in the right (largest) box and sound is available in the headphones. When released the minimum value in the right box is held in memory. |
| | Decrease This button is used to decrease the volume in the headphones, or adjust the screen contrast in screen contrast mode. |
| | Increase This button is used to increase the volume in the headphones, or adjust the screen contrast in screen contrast mode. |
| | Store When pressed and released, the current value of the minimum sound level (shown in the right hand box) will be stored in the middle box and the contents of the middle box moved to the left box. The contents of the left box are discarded. This feature allows the last 3 saved values to be shown on the screen. Holding the store button for about 3 seconds will delete the displayed data in the boxes. |
| | Filters When pressed and released, the filter selection will cycle through the options. When a new filter is selected the amplifier takes a few seconds to stabilize. If the Press-to-listen button is pressed at this time the sound level figure will flash to indicate it is unreliable. |



ADS Mikron with Ground Microphone.

Switch-on and Off

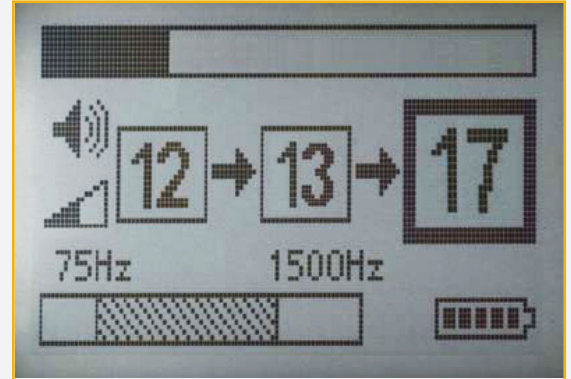
To turn the amplifier on, press any key until it turns on. (The sensor and headphones must be connected before the amplifier is switched on).

To turn the unit off, press the 'Increase' and 'Decrease' buttons together. The amplifier will switch off automatically if no button is pressed for 5 minutes.

Minimum Noise Level Display

To enable accurate leak pinpointing, Mikron displays the Minimum Noise Level and also the two previous Minimum Noise Level measurements such that the user can easily tell whether they are moving toward or away from the leak.

The main display area has three boxes. When the amplifier is switched on these boxes are empty. When the Press-to-listen button is pressed, the current Minimum Noise Level is shown in the right hand (largest) box. When the Press-to-listen button is released, the current level in the right box is displayed permanently. Each time the store button is pressed, the values move to the left and the right-side value is cleared (the left-side stored value is lost). In this way the latest displayed value can be easily compared with the two previous values.



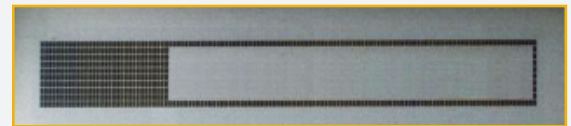
The left side of the display shows a speaker symbol when the Press-to-listen button is held down. When not pressed, the symbol is crossed out.

Sound Volume Display

A triangle graph display representing the volume of the sound in the headphones is shown below the speaker symbol. When the unit is turned on, the minimum volume is set in the headphones, this can be changed using the decrease and increase buttons. Changing the volume in the headphones does not change the noise level displays.

Real-Time Noise Level

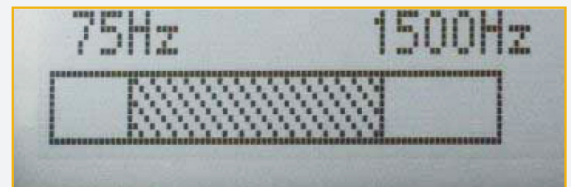
Real-Time Noise Level shows an analogue bar of the current sound level detected in the sensor, i.e. not the Minimum Noise Level.



Filter Display

The lower part of the display shows the selected filters. In the example below, the filters have been set to allow a listening range of 75Hz to 1500Hz. Filter selection is made by pressing the filter button. The following filter ranges are available:

| Recommended Use | Filter Range |
|-------------------------------|----------------|
| Ground listen, metallic pipe | 75Hz – 1500Hz |
| Ground listen, plastic pipe | 75Hz – 750Hz |
| Direct contact, metallic pipe | 600Hz – 2500Hz |
| Direct contact, plastic pipe | 200Hz – 1500Hz |
| Wideband noise | 30Hz – 4000Hz |



Backlight

To turn the backlight on or off, hold the filter button for more than two seconds. Each time the button is held the backlight will cycle through on and off.

Contrast

Enter contrast mode by pressing the store and filter buttons together. To adjust the contrast press the decrease and increase buttons as required. When the desired level has been set press the filter button to return the unit to normal operation.

Battery and Charging

The amplifier contains a non-removable, rechargeable battery. Typical battery life is 35 hours use with the backlight off and 17 hours with the backlight on. The battery display shows the current charge of the battery.

To charge the battery the battery charger is connected to the amplifier unit (right hand connector) and plugged into a suitable electrical outlet power supply.

ADS Mikron powered by Primayer
 The ADS Mikron Operating Manual can be Downloaded Online at www.adsenv.com/manuals.

