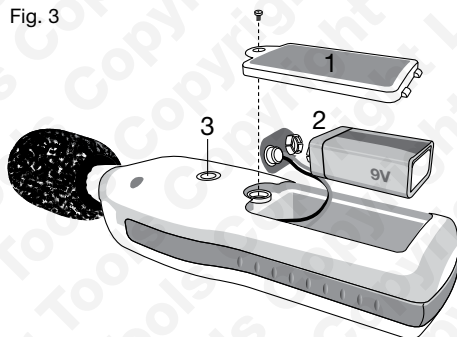



Battery Replacement

Fig. 3



When the low battery symbol  appears on the LCD display, replace the 9V battery (refer to **Figure 3**). Remove battery cover (1) to access 9V battery (2). Dispose of the used battery according to local authority guidelines.

Maintenance:

- Do not store or operate the instrument at high temperatures or in conditions of high humidity, dampness or condensation.
- If the instrument is not to be used for a long period, remove the battery to avoid harmful leakage.
- Keep microphone area dry and avoid severe vibration.
- Protect the instrument from electromagnetic fields and static electricity.

Precautions

- **Always wear ear defenders** when testing sound levels in a new situation. Damage to the human ear can begin at 85dB and above. **Do not assume the sound level is safe until you have actually measured it.**
- When testing sound levels near working machinery, be aware and take particular care around rotational parts such as belts, pulleys and fans, etc.
- Do not let untrained persons use the instrument.



Safety First. Be Protected.



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6605_Instructions_v2

Guarantee

If this product fails through faulty materials or workmanship, contact our service department direct on: **+44 (0) 1926 818186**. Normal wear and tear are excluded as are consumable items and abuse.

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Part No. 6605

LASER[®]

Sound Level Meter Instructions



The Laser 6605 is a high quality Sound Level Meter used for measurement of mechanical and environmental noise. It is a Class 2 Sound Level Meter designed to meet the requirements of IEC 61672-1. Typically, Class 2 Sound Level Meters are suitable for occupational noise measurements such as the UK Controls of Noise at Work Regulations or the OSHA Occupational Noise standards.

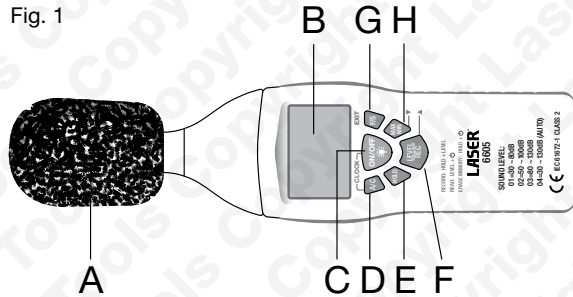
Thus it is ideal for:

- Occupational and industrial hygiene noise evaluations.
- Noise at Work surveys and Noise Exposure calculations.
- Noise Ordinance Enforcement.
- Machinery noise tests.
- General noise measurements.

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Controls

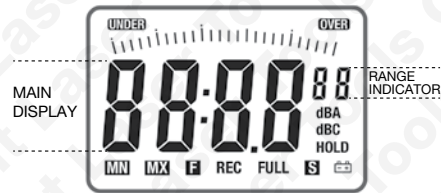
Fig. 1



A	Wind shield
B	LCD display
C	ON/OFF & Backlight
D	Frequency weighting button
E	HOLD button
F	Level range & Record
G	Fast/Slow time weighting
H	Max/Min hold button

LCD Display

Fig. 2



Symbol	Function
MN	MIN – Minimum sound level capture
MX	MAX – Maximum sound level capture
F	FAST sampling rate
REC	Data has been recorded
S	SLOW sampling rate
	Low battery
HOLD	Data hold function
dBA	A-weighting (response to human hearing)
dBC	C-weighting (response to machine monitoring)
OVER	Over upper limit of range
UNDER	Under lower limit of range

Operation

Note: In even mild windy conditions it is essential that the wind shield (A) is used to reduce the effects of wind and air movement across the microphone and thus avoid picking up background noise. The wind shield also protects the sensitive microphone from damage and keeps the microphone capsule clean.

1. Refer to **Figure 1**: Turn the instrument ON by pressing the **ON/OFF** button (C).
2. Press the **LEVEL/REC** button (F) to cycle through to the best level (of 4) for the noise measurement task in hand. Watch for the OVER and UNDER indicators at the top of the display; select a level where these indicators are off.
3. Press the **A/C** button (D) to choose the required filter dBA or dBC; each filter has a different sensitivity to various frequencies. The dBA sound level meter applies to the mid-range frequencies as opposed to the dBC sound level meter that measures low and high frequencies. For example, when transmitted sound has bass issues or problems, the C filter is typically used (entertainment venues, etc), or for high pitched sounds from machinery.
4. The **F/S** button (G) selects either FAST sampling for instant sound or SLOW sampling for an average sound level.
5. The **MAX/MIN** button (H) is used when you need to monitor the maximum sound level, or **minimum** sound level, at the time of measuring.
6. You can measure sound levels by holding the instrument in your hand, or mounting on a tripod, ideally 1-1.5 metres from the sound source. Refer to (3) in **Figure 3** for position of tripod mount.

Operation

- **ON/OFF** and backlight button (C): Press once to turn on the instrument; press again to turn on backlight; press again to switch off backlight. To turn instrument OFF, press and hold ON/OFF and backlight button; the display will count down **P--3, P--2, P--1**. When screen goes blank, release the button.
- Frequency weighting button (D): (Refer to point 3 in **Operation** section above).
- **HOLD** button (E): **Data HOLD**: Press button once to freeze the reading on the display; press again to return to live monitoring. **Data ZERO**: Instrument switched OFF: First press and hold the **HOLD** button then also press the **ON/OFF** button. Keep both buttons held down until **CLA** is displayed; this indicates that all readings stored in the memory have been erased.
- **LEVEL RANGE/RECORD** button (F):
 1. **Range select**: the range level is represented on the display by the two small digits on the right-hand side (refer to "Range Indicator" on **Figure 2**). Cycle through the 4 available levels by pressing the button: **01** (low level): 30-80dB; **02** (medium level): 50-100dB; **03** (high level): 80-130dB; **04** (AUTO): 30-130dB.
 2. **REC Record Function**: To record readings, first press the **HOLD** button (E) to freeze the display; then press the **LEVEL/REC** button (F) to place the reading into the memory. **REC** will appear on the display to indicate that the reading has been saved. Press the **HOLD** button again to return to live monitoring.
 3. **Data Reading Function**: To read the data that you have recorded, first switch off the instrument; now hold down the **LEVEL/REC** button and press the **ON/OFF** button once. When **dAta** is displayed, release the **LEVEL/REC** button and the first stored reading will be displayed. Up to 50 readings can be stored. Cycle through these readings by repeatedly pressing the **LEVEL/REC** button. For ease of reference, each reading is numbered 1 through to 50 as indicated by the two small digits on the right hand side of the display (refer to "Range Indicator" on **Figure 2**). Each reading has an automatically recorded date and time; press the **HOLD** button once to see the date; press the **HOLD** button again to see the time. A third press of the **HOLD** button returns the display to the recorded reading. (See section below on how to set the date and time on the instrument).
- **MAX/MIN** button (H): (Maximum and Minimum Hold): Select the required mode by pressing the **MAX/MIN** button; **MX** or **MN** will indicate mode. With **MX** mode, the maximum sound level will be captured and held by the instrument until a higher sound level is captured. In **MN** mode, the minimum sound level will be captured and held until a lower sound level is captured.
- **Setting the Time & Date**: To set, begin with the instrument switched OFF. To enter the setup mode, hold down the **A/C** button (D) a press the **ON/OFF** button (C) until **Set** is displayed; release both buttons. The currently set date will be displayed in the format day/month/year; this screen cannot be edited. Press the **A/C** button again and the currently set time is displayed in the format hours/minutes/seconds; this screen cannot be edited.
 1. **To edit minutes**: press the A/C button again to enter the **edit minutes** mode; use the **LEVEL/REC** button to advance the number; use the **MAX/MIN** button to decrease the number.
 2. **To edit hours**: press the A/C button again to enter the **edit hours** mode; use the **LEVEL/REC** button to advance the number; use the **MAX/MIN** button to decrease the number.
 3. **To edit date**: press the A/C button again to enter the edit date mode; use the **LEVEL/REC** button to advance the number; use the **MAX/MIN** button to decrease the number.
 4. **To edit month**: press the A/C button again to enter the **edit month** mode; use the **LEVEL/REC** button to advance the number; use the **MAX/MIN** button to decrease the number.
 5. **To edit year**: press the A/C button again to enter the edit year mode; use the **LEVEL/REC** button to advance the number; use the **MAX/MIN** button to decrease the number.
 6. To exit setup mode and save your setting, press the **HOLD** button once.
 7. **Note**: if you continue to press the **A/C** button in edit mode, the initialisation/reset screen is displayed; if you press the **A/C** button again your previous settings will be lost and the display reverts to the original factory settings.