



# SOUND LEVEL METER

MODEL YF-20

OPERATING MANUAL

The model YF-20 Sound Level Meter is suited to checking noise levels in almost any environment including factories, offices and homes.

The meter is designed to provide the preferred "A" weighted response. This response is universally accepted for environmental noise measurements and is similar to that of the human ear.

## Features

1. One-handed simple, easy to operate.
2. Inbuilt reference signal.
3. Inbuilt battery test.
4. Quickly, accurately measures sound level.
5. Compressed scales minimise range switching.

## Battery Installation

1. The meter requires one 9 volt battery (Type 216, 006P 622 or similar).
2. Slide the battery cover down from the rear of the meter.
3. Connect the battery to the matching snap connector and fit the battery to the battery compartment so that the bottom of the battery is below the "CAL ADJ" marking and the battery wires are concealed behind the battery.
4. Replace the battery compartment cover.

## Battery Test

1. Rotate the control knob to the "BATT" position.
2. If the meter needle is within the range of the blue "B.OK" scale then the battery is usable.

\* Note Do not leave the control knob in the "BATT" position as this could quickly flatten the battery.

## Calibration Check

1. An internal reference signal is available for checking the meter's operation.
2. Rotate the control knob to the "CAL" position.
3. The meter needle should indicate 70dB. Any other reading may indicate that the meter has been damaged.
4. Though not normally necessary, the reading can be recalibrated by adjusting the "CAL ADJ" control located.
5. In the battery compartment, using a non-conductive screwdriver.
  - \* Note Before attempting recalibration, ensure that the battery is in good condition. Proper calibration requires suitable test equipment.

## Operation

1. Before use check the meter by performing a battery test and a calibration check as detailed above.
2. Switch the control knob to the "Hi" position.
3. To measure the noise from a particular object, hold the meter a known distance from the object and point it towards the noise source.
4. To measure ambient noise in a workplace, for example, position the meter at the workers locations and rotate it to obtain the highest reading in each location.
5. If the meter reads below 80dB, then switch it to the "Lo" range.

## Specifications

1. Ranges       Lo: 40-80dBA SPL  
                  Hi: 80-120dBA SPL
2. Current       5mA(Operating).
3. Consumption 14mA(BATT test).
4. Size           160mmx65mmx38mm.
5. Weight       165g.

## Cautions

1. Do not drop the meter or subject it to similar impact as this could damage the meter movement or affect the unit's calibration.
2. Do not leave a battery in the unit if it is not being used regularly as most batteries can leak or corrode.

## Noise Level Examples

(dBA)

- 130 Threshold of pain.
- 115 Disco/Rock concert.
- 105 Low-flying jet, close thunder.
- 95 Lawnmower.
- 85 Orchestral concert.
- 75 Factory, traffic at 10 meters.
- 65 Vacuum cleaner, conversation.
- 55 Light traffic at 30 meters.
- 45 Quiet residence-daytime.
- 35 Quiet residence- nighttime.
- 25 Soft whisper.

## Warranty

1. This product is warranted against manufacturing defects for a period of 12 months from the date of purchase.
2. Retain the original copy of your sales receipt as evidence of purchase date.
3. Should warranty service be needed return the product and your sales receipt to the retailer that you purchased the product from.
4. This warranty is additional to and does not limit legal rights which vary in different states.