2. Calibration using internal oscillator.
a) Make the following switch settings.
RANGE: Hi
RESPONSE: F
FUNCT: A
b) Adjust the unit to the readout.

6. Measurement Preparation
1. Battery Loading:
Remove the battery cover on the back and put in one PP3 9V battery (53090). *Note: Make sure battery polarity is correct.*
2. Battery Replacement:
When the battery voltage drops below the operating voltage, “BT” mark will appear in the display and battery should be replaced with a new one.

7. Operating Precautions
1. Wind blowing across the microphone would bring additional extraneous noise. Once using the instrument in the presence of wind, it it is a must to mount the windscreen in order not to pick up undesirable signals.
2. Calibrate the instrument before operation if instrument not in use for a long time or operated at bad environment.
3. Do not store or operate the instrument at high temperature and humidity environment for a long.
4. Keep microphone dry and avoid severe vibration.
5. Please take out the battery and keep the instrument in low humidity environment when not in use.

8. Measurement
1. Open the battery cover and install a PP3 9 volt battery (53090) in the battery compartment.
2. Turn on power and select the desired response and weighting. If the sound source consists of short bursts or only catching sound peak, set RESPONSE to FAST. To measure average sound level use the slow setting. Select A-weighting for general noise sound level and C-weighting for measuring sound level of acoustic material.
3. Hold the instrument comfortably in hand or fix on tripod and point the microphone at the suspected noise source, the sound pressure level will be displayed.
4. When MAX HOLD mode is chosen. The instrument captures and holds the maximum level indication.
5. Turn OFF the instrument when not in use.

YORK Survey Supply

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York Survey Supply Centre
@York_Survey
@York_Survey

Prospect House, George Cayley Drive, Clifton Moor, York, England YO30 4XE

Tel: +44 (0) 1904 692723 Fax: +44 (0) 1904 690385
E-Mail: sales@yorksurvey.co.uk www.yorksurvey.co.uk

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YORK Survey Supply

Digital Sound Meter

Code: 34302

Operating Instructions

1. Safety Information

• Read the following safety information carefully before attempting to operate or service the meter.
• Use the meter only as specified in this manual; otherwise, the protection provided by the meter may be impaired.

Environment conditions

1. Altitude up to 2000 metres
2. Relative Humidity 90% max.
3. Operation Ambient 0 - 40°C

Maintenance and Clearing

1. Repairs or servicing not covered in this manual should only be performed by qualified personnel.
2. Periodically wipe the case with a dry cloth. Do not use abrasives or solvents on this instrument.

Safety Symbols

Meter is protected throughout by double insulation or reinforced insulation.
When servicing, use only specified replacement parts.

Comply with EMC

2. General Description and Features

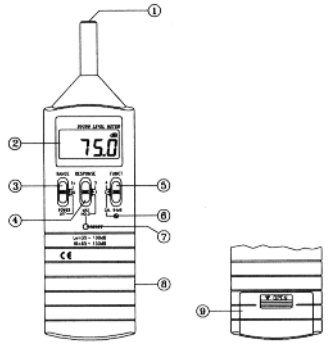
Thank you for selecting our Sound Level Meter. To ensure that you can get the most from it, we recommend that you read and follow the manual carefully before use.
The unit is designed according to IEC651, ANSI S1.4 for sound level meters.
The Sound Level Meter has been designed to meet the measurement requirements for industrial safety offices and sound quality control in various environments.

• Ranges from 35dB to 130dB at frequencies between 31.5Hz and 8KHz.
• Display with 0.1dB steps on a 4-digit LCD.
• With two weighting, A and C.
• Both AC and DC signals output is available from a single standard 3.5mm coaxial socket suitable for a frequency analyzer, level recorder, FFT analyzer, graphic recorder, etc...

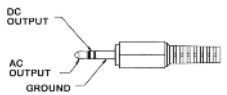
3. Specifications

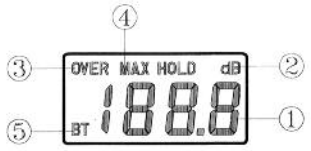
Standard Applied	According to IEC651, ANSI S1.4
Frequency Range	31.5Hz - 8KHz
Measuring Level Range	35 - 130 dB
Frequency Weighting	A/C
Microphone	1/2 inch Electret condenser microphone
Display	LCD
Digital Display	4 Digits Resolution: 0.1dB Display Period: 0.5sec
Time Weighting	FAST (125mS), SLOW (1 sec).
Level Ranges	Lo: 35 - 100dB and Hi: 65 - 130dB
Accuracy	±2.0dB (under reference conditions)
Dynamic Range	65dB
Alarm Function	"OVER" is shown when input is out of range.
Maximum Hold	Hold readings, with decay <1dB/3 minutes.
Calibration	Electrical calibration with the internal oscillator (1KHz sine wave)
AC Output	0.65 Vrms at FS (full scale), output impedance approx. 600Ω
DC Output	10mV/dB, output impedance approx. 100Ω
Power Supply	One 9V battery 006P or IEC 6F22 or NEDA 1604
Power Life	About 50 hrs (alkaline cell)
Operating Temperature	0 - 40°C (32 - 104°F)
Operating Humidity	10 - 90% RH
Storage Temperature	-10 - 60°C (14 - 140°F)
Storage Humidity	10 - 75% RH
Dimensions	240(L) x 68(W) x 25(H)mm
Weight	210g (including battery)
Accessories	9V battery, carrying case, screwdriver, instruction manual, 3.5φ plug.

4. Nomenclature and Functions



1. Microphone
1/2 inch Electric Condenser microphone
2. Display
Serves to display the sound pressure level (dB), over or under range "OVER", maximum hold data "MAX HOLD" and low battery indicator "BT".
dB: Sound pressure level with 0.1dB resolution.
OVER: Shown when the range setting is too high or low.
3. Power and Range Switch
• Turn power ON and select measurement range.
(Hi range = 65 - 130dB, Lo range = 35 - 100dB)
• When "OVER" is indicated, slide range switch to another range for measurement.
4. Response and Max Hold Switch
Setting the meter dynamic characteristics (fast/slow) and maximum value hold
S (Slow response): for comparatively stable noise measurement.
F (Fast response) : for fast varying noise.
MAX HOLD: The max hold position is used to measure the maximum level of sounds. The maximum measured level is updated continuously.
To refresh please set the switch to "F" or "S" position to cancel existing value, then, set switch to "MAX HOLD" position.
5. Function Switch (A/C weighting & calibration selector)
A: A-weighting
C: C-weighting
CAL 94dB: Calibration
6. Calibration Control can be adjusted clockwise or counterclockwise to standard 94.0dB.
7. Reset Button
Serves to reset the maximum level indication.
8. Output Jack
Standard 3.5mm 3 pole coaxial output socket.
Serves to supply AC signals and log-converted DC signals to external equipment.
Outputs:
Two outputs can be accessed through 3.5mm stereo plug refer.
DC output: Logarithmic signal. 10 mV/dB. Impedance <100Ω
AC output: approx. 0.65 Vrms corresponding to each range step. Impedance = 600Ω
9. Battery Cover (on bottom)





LCD Display Description
1. Sound Pressure Level measuring value, resolution 0.1dB.
2. Measuring unit.
3. When readout is out of range.
4. MAX HOLD: Maximum Hold.
5. BT: Low battery indicator.

5. Calibration Procedures

1. Using an acoustic calibrator
a) Make the following switch settings.
RANGE: Hi
RESPONSE: F
FUNCT: A
b) Insert the microphone carefully into the insertion hole of the calibrator.
c) Turn on the switch of the calibrator and adjust the CAL screw of the instrument, until the level display indicates the desired level.
Note: Our products are calibrated before shipment.
Recommended calibrator cycle is six months.