

GA156 Technical Data Sheet

The Castle GA156 Data-logging Personal Noise Exposure Meter

Powerful, yet small and lightweight, the Castle GA156 noise dosimeter combines the latest technological advances with a realistic price tag. With its clear and easy to read 8 character alpha numeric display, soft-touch keypad, electronic security lock and instant calibration facility, the GA156 is sure to prove invaluable in a wide range of occupational health applications.

Downloading to a personal computer via Castle's dBdataPRO software for Windows will lead you into a whole new area of power and flexibility.

Mobility of instrumentation is essential for effective noise measurement. As the name indicates, the Castle 'Pocket Range' packs all the necessary features into pocket sized proportions

All measured values are held within the memory of the GA156 for subsequent output. The results can be viewed on the instruments own display, printed out or downloaded to a PC.

A particularly important feature in a dosimeter is security. The GA156 has the ability to lock the keypad with just two keystrokes. From this state, all of the functions will be inoperable. To unlock the instrument, a code is required which is supplied with the unit.

The measured noise is computed and stored as a series of Lep'd and DOSE values in pre-chosen time intervals. Using the five memory stores which can be selected from the menu, data can be logged for five different employees or five different days. The GA156 will store 1 minute values or 10 minute values to give more or less detail as required.

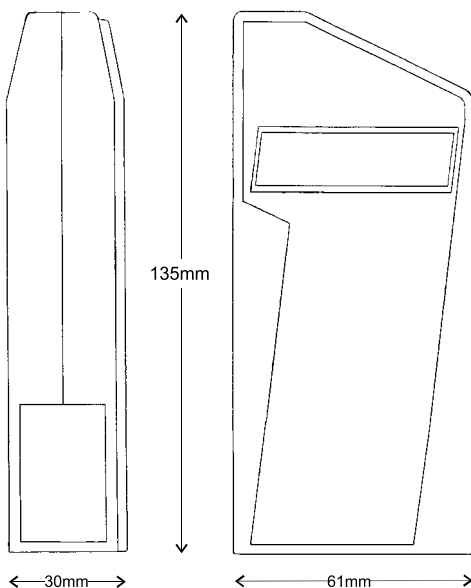
Each GA156 is supplied in its own plastic case complete with a handbook, windshield, calibration screwdriver and pen. A full range of kits are also available with calibrators, printers and software.



INVESTOR IN PEOPLE



TENDER SPECIFICATIONS



CASTLE GA156

To measure dose, projected dose, DOHR (Dose per Hour) Lepd, projected Lepd, Pa²H 115dB RMS and 200Pa peak Flags with user selectable Criterion and Factory selectable Exchange rate.

To log results into 5 memory locations which can then be downloaded via RS232C direct to a printer to provide alpha-graphic reports or into a Personal Computer using relevant software. 8 character alpha -numeric LCD.

To act as a dedicated personal sound exposure meter

To fit into small shirt or jacket pocket.

Lockable Key pad.

To be constructed of tough crack resistance plastic.

Single battery operation for approximately 15 hours.

To have strong clip for attaching to a belt or shirt pocket

Castle
advanced sound solutions



GA156 SPECIFICATION

Data-logging Personal Sound Exposure Meter

Measuring range:

75 - 135 dB (85dB Criterion).

80 - 140 dB (90dB Criterion)

Dynamic range:

60 dB.

Detector Characteristics:

RMS and Peak

Frequency Weighting

'A' Weighted in Accordance with BSEN60651

Time Weighting

'Slow' in Accordance with BSEN60651

Exchange rate:

3dB or 5dB Doubling *

Criterion Level (Key pad selectable)

90dBA for 8 hours = 100% DOSE * or

85dBA for 8 hours = 100% DOSE *

Threshold Level:

80dBA or 75dBA *

RMS Detector:

Normally set at 115dBA rms *

Peak flag:

140dB 200Pa Linear frequency weighted

*: Unless otherwise specified at the time of order, the GA156 will be delivered with the following default settings: 3dB exchange rate, 90dB criterion, 80dBA threshold, 115dBA RMS trigger and 200 Pa peak flag.

Display:

Digital 1 x 8 alphanumeric, digit size 7mm x 5mm Liquid Crystal Display.

Memory:

5 Employee records storing:

1 - minute values - 20 hours

10 - minute values - 9 days (power dependant)

Microphone/Preamp:

Pre-polarised 1/2" condenser microphone

Cable length 0.8m

Calibration:

In 'CAL' mode, instrument displays 1 second Leq's over limited range. Instrument is then acoustically calibrated using GA601 or GA607 at 94dB or 104dB at 1KHz Potentiometer adjusted.

Reference Frequency: 1KHz

Reference SPL: 94dB

Batteries:

Type: IEC No. 6LR61

Life: for Duracell MN1604 - ~15 hours continuous

Temperature:

Operating range: -10 to + 50°C

Storage without batteries: -20 to + 70°C

Humidity:

Effect: < 0.5dB from 30% to 90% RH

Vibration:

A 40Hz 1m/s vibrating force produces no noticeable effect.

Magnetic Field:

80A/m (1Oersted) at 50Hz produces < 0.5dB error.

Standards:

Compliance with BS6402 (Dosemeters) and Designed to meet the requirement of the EMC regulations.

Construction:

Small, lightweight case of fibre-filled, ABS plastic.

Operation:

Microprocessor based operation.

Tactile keypad operation.

State of the art electronic design.

Display parameters include :-

Projected Leq'd 75dB to 135dB

Pa2Hrs (Dose % x 0.032)

Sound Pressure Level for calibration to 0.1dB resolution

Lpeak (Maximum linear peak hold)

Dose count 1% to 9999% with Variable exchange rate of

3dB/5dB and criterion level 85dB/90dBfor Dose calculations.]

Projected Dose 1% to 9999%

'A' frequency weighting

'Slow' time weighting

Elapsed time (Running time hrs, mins, secs, 1%)

Overload indication (Flashing alternate display)

Battery condition indication

Low battery (Flashing alternate display)

115 dBA Flag and Time of first occurrence (factory selectable to other levels if required)

ORDERING INFORMATION

GA156	-	Industrial Dosemeter
GA607	-	Dual Level Calibrator
GA505	-	Portable battery operated printer
ZL1082-01	-	Printer cable
KA009	-	Attaché Kit Case
PC007	-	dBdataPRO software for Windows

Look out for our other pocket size meters:

GA256 Basic Dosemeter

GA215 Type two Integrating Sound Level Meter

GA213 Type two Sound Pressure level meter

GA113 Type one Integrating Sound Level Meter and Dosemeter

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