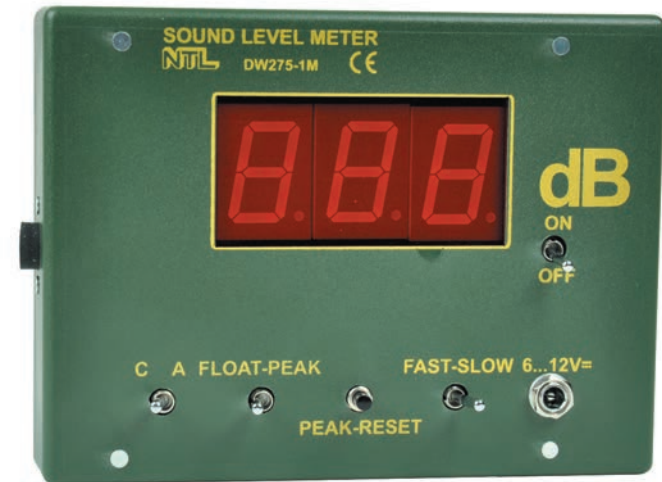




DW275-1M Sound level meter "inno"



Sound level meter "inno"

Digital device for magnetic mounting, used to measure acoustics; the 26 mm LED display allows readings to be taken even from a distance

Measuring range: 30 ... 120 dB, A or C weighting selectable

Take care that the device does not fall. In the event that this does occur, have the device examined or repaired by authorized service personnel.

In the event that unforeseen difficulties arise during operation, switch off the device and contact the dealer.

Do not subject the device to dripping or sprayed water.

Use only fuses of the type and current rating indicated.

The device contains no components requiring maintenance on the part of the user.

This device may only be operated by qualified personnel or by persons they instruct in its use.

 - Fruhmann GmbH - 7343 Neutal, Austria





1 Switch ON-OFF

2 Switch FAST-SLOW

With this switch, integration-time of the display can be determined. Position FAST enables quick measurements at constant sound levels. Position SLOW is available to read off the value at strong varying levels. In case position PEAK is chosen, measurement shall only be done at position FAST to derive a reasonable display from the value. Note: Accuracy is not affected in any cases.

3 Button: PEAK-RESET

By pushing the button PEAK-RESET the memory can be cleared

4 Switch: FLOAT-PEAK

With the help of this switch the user can decide whether to display the current sound level (FLOAT) or the last peak value (PEAK).

5 Switch C A

By using this switch, frequency assessment of the input signal gets switched between linear (C) and adapted to the human hearing (A). As the human perception of the sound intensity is not only dependent on the frequency (as displayed by the meter) but also from sound intensity, the signal form as well as from physiological details like age and also sensual contexts like visual perception, the results generated in position A must be seen as guideline values.

6 Measuring microphone

The measuring microphone is located at the left side of the meter. To minimize the impact sound, it is embedded in a rubber coat. The recording area of the microphone acts very sensitive and can be destroyed by strong hits or through abuse with peak objects.

Accuracy:

Unfortunately, it is very difficult to determine the exact accuracy of the meter. Basically, it has an accuracy of $\pm 3\text{dB}$ at 1kHz sinus within a range between 40dB and 115dB at 23°C ambient temperature. Measurements are reasonable only at a range between 30Hz and 17kHz. The measurement of the PEAK value is as accurate as the measurement of the current sound level. Reasonable values starting at 30dB at this kind of meters. Lower results than this are useless – this can happen especially at position A.

Power supply:

4 x 1.5 V mignon cells (included) or external power supply 6 V/500 mA; case: plastic, ABS
Dimensions: approx. 160 x 120 x 45 mm
Weight: approx. 450 g