The different versions of the Nova® are:

	Class 1	Class 2	SPL	Simultaneous A, C & Z Frequency Weightings	Simultaneous F S & I Time Weightings	Leq/Peak (inc C-A & Quick Integrator Settings)	Pause & Back Erase	Data Logging	Manual Audio Record & Data Logging	Audio Note & Data Logging	Repeat Timer & Data Logging	Single Timer	TWA/dose	Ln Values	1:1 Octaves
Model 41	✔		✔	✔	✔	○	○	○	○	○	○	○	○	○	○
Model 42		✔	✔	✔	✔	○	○	○	○	○	○	○	○	○	○
Model 43	✔		✔	✔	✔	✔	✔	○	○	○	○	○	○	○	○
Model 44		✔	✔	✔	✔	✔	✔	○	✔	○	○	○	○	○	○
Model 45	✔		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Model 46		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔

✔ *Standard feature*   ○ *Optional add on feature*

The Nova® range consists of six powerful sound level meters. These differ from other sound level meters, as they offer you the unique opportunity to add features either immediately or at a later date so that the instrument will always be suitable for your requirements.

Please contact the Pulsar Instruments office or your local representative for more details.

Microphone Capsule
Preamplifier
Ambient Light Sensor
Power Key
Display
Soft Keys
Select Key
Navigation Keys

Battery Cover Retaining Screw
Battery Cover
Tripod Mount

Getting Started

All Nova® meters come with the following standard accessories:

- PA40 Microphone Preamplifier
- Microphone capsule
- Wrist strap

- User Manual
- Product CD
- USB download cable

- 6 x AA batteries
- Windshield
- Keyring

Battery Cover Retaining Screw
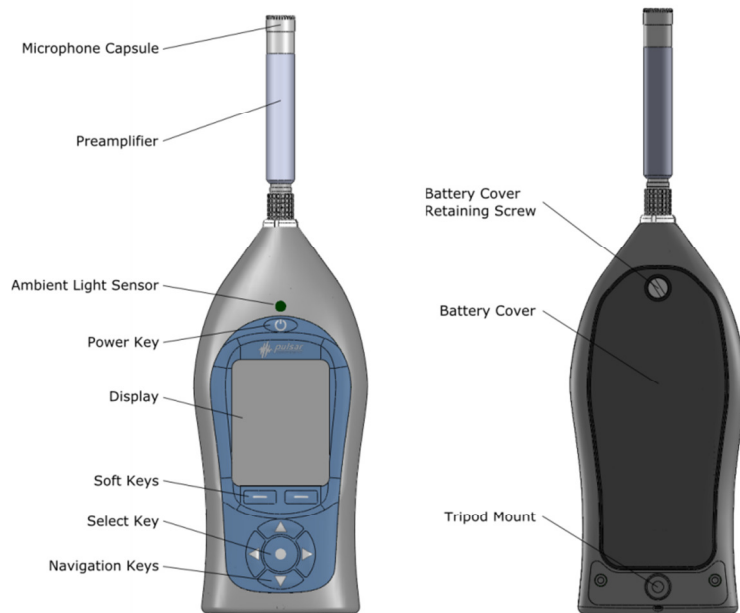Battery Cover
Battery Polarity Indicators

Inserting the batteries

Your Nova® is powered by 6 x AA batteries (also called MN1500 or LR6). We recommend that you use alkaline, lithium or high quality rechargable batteries to give the best performance.
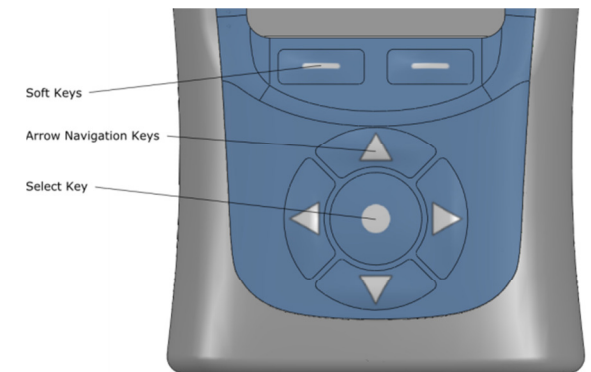
Remove the battery cover by loosening the captive battery cover retaining screw (as shown).

Please look carefully at the diagram inside the battery compartment showing the correct polarity. After inserting the batteries in the correct orientation, replace the cover and tighten the battery cover retaining screw.

Keypad and Controls

The Nova® is controlled via the four arrow keys (up, down, left and right), the centre select button and two soft keys, which change in function depending upon the mode that the instrument is in. The soft key function is shown above the button on the display.

The left and right keys move between the Views and the up and down keys move between the pages of each View.
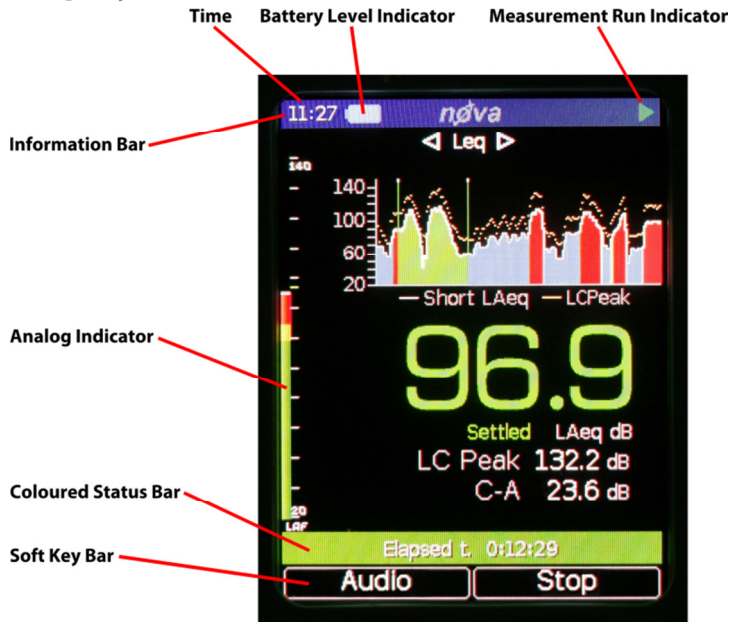

Soft Keys
Arrow Navigation Keys
Select Key

Switch on

The instrument is switched on by pressing and releasing the power button on the top of the keypad. After the boot screen, your Nova® will display the last View you used.

If the start-up screen flashes quickly when you press the power button, the batteries have insufficient power to start and need changing.

Display

The Nova® uses a high resolution colour OLED screen to show a clear and easy to read display of all the information you need.

Information Bar

The information bar shows the battery level, if external power is connected and if the Nova® is connected to a PC via the USB connector.

The status of the batteries is shown in the Battery Level Indicator. When the batteries need replacing, the indicator will turn red and start to flash.

The information bar also shows icons when functions are active.

View

This text describes the current measurement view or which menu you are currently looking at. Left and right arrows show that additional views are available – use the left and right navigation buttons to view them.

Measurement Display

The main part of the display shows the measurement functions. In addition the display features an Analog Bar on the left of the screen, which shows real time A-weighted sound level. If more pages of information are available for the currently selected function this will be shown at the bottom of the screen, ie 1 of 3 – use the up and down navigation buttons to view them.

Status Bar

The Nova® uses a colour coded status bar at the bottom of the screen to help you quickly identify what mode it is in.

Dark Blue – Not measuring mode.
Yellow – Audio Note recording.
Green – Measuring mode.
Light Blue – Measurement paused.
Purple – Measurement review.
Red – Recording audio.

When the Nova® is not measuring, the status bar shows the date and time. When it is measuring, the display shows the elapsed time. In Review mode, it shows the measurement number and the total number of measurements stored.

Soft Key Bar

The soft key bar shows the current operation of the two soft keys at the top of the keypad. These change function based upon what you are doing at the time.

Connectors

The connectors used by the Nova® to communicate with a PC and AnalyzerPlus are at the bottom of the instrument under a protective cover.

Install the AnalyzerPlus software on to a suitable PC and connect your Nova® to your PC using the supplied mini-B USB cable.

For further information on how to use the AnalyzerPlus software please refer to the software help files/videos.

Aditional Information

Additional technical information on the Nova® can be found in the Nova® sound level meter user manual and on the Pulsar Instruments website. Please visit http://www.pulsarinstruments.com/products/nova-support for the latest tips, hints, help and videos.

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