



Bedrock[®] SM90 class 1 instrument

Acoustic measurements made easy and affordable

The Bedrock SM90 is a full-featured acoustic measuring instrument, fully compliant with class 1 Sound Level Meter specifications according to IEC-61672. It already comes standard with a Real-time Analyzer module (1/1 and 1/3 octaves) and a STIPA analyzer. More modules will be added over time through free upgrades. You will easily navigate through its functions thanks to the full-colour touch screen, and retrieve your stored measurement data through USB.

What is Bedrock?

Bedrock is a range of products for the pro audio engineer and acoustician. The Bedrock product range comprises various acoustic measuring instruments (also including the BTB65 TalkBox and the SM50).

All Bedrock products are designed and manufactured in the Netherlands by Embedded Acoustics.

Why choose the SM90?

The Bedrock SM90 is a high-end class 1 instrument, offering the same reliability, accuracy and robustness as instruments by any top-notch brand of sound level meters. However, there are a few things that set the Bedrock SM90 apart from the competition.

- **No legacy hardware issues.** Many instruments that are currently sold have

evolved from older meters, which are based on legacy hardware. This greatly limits their capabilities. The Bedrock SM90 was designed from scratch, using the latest components and technologies. This makes the SM90 an extremely flexible instrument, with power to spare for future upgrades.

- The Bedrock SM90 offers a very **intuitive and easy-to-use full color touch interface**. Not even a stylus is needed - just your finger. Confusing multi-function buttons, rotary switches and complex nested menus may have been acceptable in the 1990s. But why settle for such a cumbersome interface now?
- **The Bedrock SM90 can't be beat on price.** The steep price tag on some sound level meters is meant to suggest superior quality, but in fact, the price of an instrument has very little to do with its

hardware. Instead, the quality of an acoustic measuring instrument depends mostly on how well it is designed. Our design team is counted among the best in the world - having designed acoustic (testing) equipment not just for our Bedrock brand, but for a variety of products and brands worldwide.

The Bedrock SM90 comes standard with a Type 1 / Class 1 measuring microphone.

Where to buy?

You can buy the Bedrock SM90 through our online shop, or from any of our distributors. Please refer to our website for up-to-date information on product details and pricing. Our distributor list is also found on the Bedrock website:

www.bedrock-audio.com



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Product features

The Bedrock SM90 offers the following features:

- Basic functionality: Sound Level Meter, Real-Time Analyzer (RTA) with 1/1 and 1/3 octave resolution, STIPA meter (standard and “pro” mode), RT60, FFT.
- Optionally records (calibrated) audio of all measurements, for post-hoc analysis by external software.
- More functionality to be added through free firmware updates.
- Instrument electronics and measuring algorithms designed and manufactured by Embedded Acoustics.
- Full-colour 3.2” LCD touch screen.
- 8 GB of internal storage, at least 7.5 GB available for storing measurement data
- Downloading of measurement data and firmware updating through USB.
- Easy calibration procedure
- Comes standard with Type 1 / Class 1 measuring microphone (BSWA M201 capsule).
- Also works with any 48 V XLR measuring microphone.
- Approx. 5-8 hours of use on a single charge, depending on intensity of use.
- Recharging through USB wall charger (charger with international adapters included).

Technical specifications

Technical specifications of the SM50 include:

- Linear measuring range with included microphone: 15 to 146 dB (two measurement ranges)
- Type 1 / Class 1 Sound Level Measurements compliant with ANSI S1.4 and IEC-61762.
- Frequency weightings: A,C, Z.
- Time averaging and integration: Fast, Slow; Equivalent Continuous (EQ); Max Hold.
- Peak level measurement (including LCpk)
- RTA filter specs exceed class 0 requirements (IEC-61260)
- STI measurements fully compliant with IEC-60268-16 4th edition (2011).

Accessories

The SM90 comes bundled with the following accessories:

- Carrying case
- Microphone
- World charger
- USB cable
- Carrying cord
- Quickstart guide
- Calibration certificate
- USB flashdrive with test signals and manual
- Foam windscreen

Pricing

The manufacturer suggested retail price is €1749.- excl. VAT. Contact your local distributor for up-to-date pricing details.

Bedrock is a Registered Trademark of Embedded Acoustics BV. For more information on Bedrock products, please refer to our websites:

www.bedrock-audio.com
www.embeddedacoustics.com

For information on product pricing, finding local distributors or placing orders:

sales@embeddedacoustics.com
T: +31 88 8770700

For technical questions regarding our Bedrock product line:

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Embedded Acoustics is committed to sparking innovation in the fields of acoustics, speech and hearing. Our mission is to translate scientific knowledge and high-tech engineering into working, real life products and services. We're not just talk - get in touch and find out what we are all about: expertise, experience and a practical mindset.

