



SERIES 821

SPARTAN SOUND LEVEL METER

- Easy-to-navigate, responsive, touch display
- Available as Class 1 (Model 821IH) or Class 2 (Model 721IH) Meter
- Built-in workplace noise dose and exposure metrics
- Wireless charging and data download
- Long battery life, up to 40 hours
- Optional 1/1 and 1/3 Octave Filters
- Languages supported: English, Français, Italiano, Português, Español

TYPICAL APPLICATIONS

- Site Surveys
- Work Site Noise Maps
- Workplace Noise Exposure Measurements
- Tasked-based Noise Measurements
- Job-based Noise Measurements

WORKPLACE NOISE MEASUREMENT

Designed for the Occupational Safety professional, Spartan Sound Level Meter Model 821 includes everything needed to simplify workplace noise level and noise exposure measurements. Spartan's rugged packaging makes it ideal for measurements in a wide range of environments.

The Spartan Model 821 includes a large, responsive touch display with all of the essentials for measuring workplace noise, offering

- A, C, and Z frequency weightings
- F, S, and I time weightings
- Full featured data logging

Spartan is ideal for site surveys and task-based noise exposure measurements like those outlined in ISO 9612. Built-in noise dose and LEX metrics simplify job-based noise exposure measurements.

Included G4 LD Utility software provides automatic wireless or USB data download, and convenient data storage options mean all data is available in a single results file. View tabular data, visualize results on a graph, create custom reports, and export data to a variety of formats.

The Spartan Sound Level Meter Model 821 together with Larson Davis quality and customer support delivers a robust and reliable workplace noise measurement solution.

| CONFIGURATIONS | | | | |
|-------------------------|----------|---------|----------|---------|
| MODEL | 721IH | 721IH-D | 821IH | 821IH-D |
| Class | 2 | 2 | 1 | 1 |
| Time History Logging | ✓ | ✓ | ✓ | ✓ |
| Measurement History | ✓ | ✓ | ✓ | ✓ |
| Dosimetry | ✓ | ✓ | ✓ | ✓ |
| OBA (1/1 and 1/3 Bands) | Optional | ✓ | Optional | ✓ |

| SPECIFICATIONS | |
|--|--|
| GENERAL | |
| Dynamic Range (A-weighted typical) | 17 to 140 dB |
| Time Weightings | Fast, Slow, & Impulse |
| Frequency Weightings | A, C, & Z |
| Data Storage (microSD card) | 8 GB standard Up to 32 GB (μSDHC) and 256 (μSDXC) |
| Communication | USB-C, Bluetooth BLE 4.1 |
| Display | 480 x 800 color with capacitive touch |
| Power | Internal Lithium battery, USB-C or external 12 V |
| Battery Recharge | Qi Wireless, USB-C, or external 12 V |
| Typical Runtime (internal battery @ 22 °C) | 40 hours (display off) 15 hours (display on) |
| External Power | 6 V to 24 V DC (720 mW typical with display off) |
| Logging | Time history: 1 s to 1 h Measurement History: 1 min to 6 h |
| Metrics | Leq, Lmax, Lmin, Lpeak, Ln (6 values), Time above |
| 1/1 and 1/3 Octave Metrics (Optional) | Leq, Lmax, Lmin |
| Signal Output | AC/DC on 3.5 mm TRS jack |
| Operating Temperature | -30 to 60 °C |
| Dimensions (H x W x D) | 10.1 x 3.3 x 1.3 inches 260 x 83 x 32 mm |
| Weight | 12.1 oz (383 g) |
| FILTERS (OPTIONAL) | |
| Bandwidth | 1/1 and 1/3 Octaves |
| Frequencies (base 10) | 1/1: 8 Hz to 16 kHz 1/3: 6.3 Hz to 20 kHz |
| Standards Compliance | ANSI S1.11-2014 Class 1 IEC 61260:2014 Class 1 |
| STANDARDS | |
| Acoustic | 721 Models: ANSI S1.4-2014 Class 2, IEC 61672-1:2013 Class 2 821 Models: ANSI S1.4-2014 Class 1, IEC 61672-1:2013 Class 1 |
| Noise Dosimetry | ANSI S1.25-1991 IEC 61252:2017 |
| Safety | Directive 2014/35/EU IEC 61010-1:2010 RoHS Directive 2011/65/EU |
| Approvals | CE, RoHS, WEEE |

| INCLUDED ACCESSORIES | |
|----------------------------------|--|
| DESCRIPTION | MODEL |
| Free-field Microphone (50 mV/Pa) | 721 Models: 375A04 821 Models: 377B02 |
| Preamplifier | 721 Models: PRM721 821 Models: PRM821 |
| USB-C Cable | CBL242-03 |
| Software | G4 LD Utility |

| OPTIONAL ACCESSORIES | |
|---|------------|
| DESCRIPTION | MODEL |
| Replacement internal lithium batteries | BAT026 |
| Power cable with Anderson Powerpole® connectors to bare wires (6 in. / 15 cm) | CBL226-1/2 |
| External 12 V power cable for 721 and 821 of length 15 in. (38 cm). Terminated with Anderson Powerpole® connector | CBL241-01 |
| Universal AC power supply with USB-C output connector | PSA045 |
| Hard shell shipping and carrying case | CCS060 |
| Qi charger pad with USB-C connector | PSA046 |
| Tripod with low acoustic signature for use with Sound Level Meters. Max height 80 inches (2 m) | TRP025 |
| Accessory kit for Class 1 Sound Level Meters; includes case (CCS060), power supply (PSA045), Class1 calibrator (CAL200) & windscreen (WS001) | X21-ACC |
| Accessory kit for Class 2 Sound Level Meters; includes case (CCS060), power supply (PSA045), Class 2 calibrator (CAL150) & windscreen (WS001) | X21-ACC1 |
| Option to add 1/1 and 1/3 Octave Band filters | X21-OB3 |
| Option to disable Bluetooth | X21-NBT |
| 8 GB, industrial grade microSD memory chip | X21-SD-8GB |
| Preamplifier extension cables up to 200 ft. (60 m) | EXC series |



Meter Ports