



## Acoustic & Vibration Instruments

### Real-time Signal Analyzer

Model AWA 6291

#### FEATURES

- ⊗ A pocket real-time noise signal analyzer
- ⊗ Real-time octave and/or 1/3 octave band analyses
- ⊗ FFT analysis on noise or vibration
- ⊗ Lower background noise, 90dB linearity range.
- ⊗ Complies with IEC 61672 class 1 and IEC 61260 class 1
- ⊗ May be select different software based on your specific needs

#### USES

- ⊗ Comprehensive sound measurements
- ⊗ Environment noise certification and 24h monitoring
- ⊗ Noise profile measurement of industrial noise
- ⊗ Gathering field-data for further analyses
- ⊗ Quality-testing products
- ⊗ Research and development



### Specifications

#### PERFORMANCE SPECIFICATIONS

**Frequency Response:** 10 Hz~20 kHz $\pm$ 0.2 dB, 1 Hz~23 kHz( $\pm$ 1.0 dB)

**Frequency Weighting:** A, C, F(Flat)

**Measuring Upper Limit:** 130 dB(A),(re. 20  $\mu$  Pa)

**Measurement of Peak C sound level:** 50~143 dB

**Sampling Frequency:** 48 kHz

**Integrating Time:** Manual, 10s, 1min, 10min, 15min, 20min, 1h, 4h, 8h, 24h

**Anti-aliasing Filter:** Cutoff frequency is 23.5 kHz and stopband attenuation is 100 dB

**Time Weighting:** F, S, and linear average

**Self-generated Noise:** <18 dB(A), 23 dB(C), 28 dB(Z)

**Linearity Range:** 90dB

**A/D bits:** 24 bits

## List of optional software

---

### INPUT

**Microphone:** 1/2" Prepolarized Condense Mic. AWA14423

**Sensitivity:** 50 mV/Pa

**Reference Direction:** Axial direction of microphone

**Frequency response:** Free field

**Frequency range:** 10 Hz~ 20 kHz,  $\pm 2$  dB

**Polarized voltage:** 0 V

---

### OUTPUT

**AC output:** Max.output voltage: 3.2V,

Output impedance: 1 k $\Omega$

**Indicator:** 240 $\times$ 160 matrix LCD, with EL background lighting

**RS232C interface:** To mini-printer or PC

**DC output:** Output voltage

Output impedance: 1 k $\Omega$

**Data Storage.** 256 kB Flash, or transferred to the Flash disk

**USB Interface:** Mini B, Complying with USB 1.1, and USB 2.0, to PC

---

### POWER SUPPLY

**Battery:** 4 $\times$ LR6 batteries

**Battery Life:** Approx. 8 hours

**Operating Current:** 80 mA

**Ext. AC/DC adaptor:** 5V, 200mA

---

### ENVIRONMENTAL

**Temperature:** -10  $^{\circ}$ C~+ 50  $^{\circ}$ C

**Humidity:** 25 %~90 % (R.H)

**Atmospheric Pressure:** 650 hPa~1080 hPa

**Electromagnetic compatibility:** Comply with the requirements of IEC 61672 standard on X type

---

### PHYSICAL

**Dimension(L $\times$ W $\times$ H):** 290mm $\times$ 90mm $\times$ 38 mm

**Weight:** < 0.5 kg (including batteries)

---

---

### ACCESSORIES:

**Included:** 1/2" Prepolarized Condense Mic. AWA14423  $\times$  1

Battery LR6  $\times$  4

Carrying case  $\times$  1

**Available:** Sound Level Calibrator AWA6221 (Class 1)

Tripod  $\times$  1

5 m Mic. Preamp. Extension Cable  $\times$  1

Windscreen S 80 mm  $\times$  1

Instruction Manual  $\times$  1

Software disk  $\times$  1

Mini-printer: UP40TS  $\times$  1

Paper for mini-printer

2 m Mic. support rod  $\times$  1

---

---

Phone 1300 662720 fax 1300 884187

[sales@pacificsensortech.com.au](mailto:sales@pacificsensortech.com.au)

[www.pacificsensortech.com.au](http://www.pacificsensortech.com.au)