

# Real-Time Octave Band Analyzer

Type 2 integrating sound level meter with octave and octave band real-time display

- Wide 100 dB range of 30 to 130 dB
- 160 x 160 dot matrix backlit LCD displays Leq, LE, Lmax, Lmin and Lp
- Built-in memory stores up to 12,280 records in SLM mode and 1024 data points in 1/1 or 1/3 octave mode
- Stored data can be easily transferred to a PC via RS-232 interface and analyzed using software & cable provided
- A, C, and flat weighting with fast or slow response
- 25 Hz to 10 kHz frequency response
- Meets ANSI and IEC Type 2 standards
- Internal self-test when powered ON
- Detachable 0.52" (13.2 mm) diameter condenser microphone and tripod mount provided on rear
- Analog AC/DC recorder output
- Real-time clock with year, month, day, hour, minute, and second display
- Optional microphone extension cable for measurements in enclosures and other remote locations (407764)



86510-00

### Applications

- Real-time analysis of noise from any source such as machinery or vehicles
- Monitor office or plant noise and store data for later reference and analysis
- Maintain noise level statistics for internal and external audits
- Perform machinery noise monitoring or use for noise reduction programs

SPECIFICATIONS	
Range	30 to 130 dB
Resolution	0.1 dB
Frequency range	25 Hz to 10 kHz
Accuracy	±1.5 dB (ref 94 dB @ 1 kHz)
1/1-1/3 Analyzer level range	70 dB (20 to 90 dB, 30 to 100 dB, 40 to 110 dB, 50 to 120 dB, 60 to 130 dB)
1/1 Octave and 1/3 Octave band filters	1/1 Octave band center frequencies : (9 bands): 31.5 Hz, 63 Hz, 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, and 8 kHz. 1/3 Octave band center frequencies : (27 bands) : 25 Hz, 31.5 Hz, 40 Hz, 50 Hz, 63 Hz, 80 Hz, 100 Hz, 125 Hz, 160 Hz, 200 Hz, 250 Hz, 315 Hz, 400 Hz, 500 Hz, 630 Hz, 800 Hz, 1 kHz, 1.25 kHz, 1.6 kHz, 2 kHz, 2.5 kHz, 3.15 kHz, 4 kHz, 5 kHz, 6.3 kHz, 8 kHz 10 kHz
Measurement function	La, Lc, Lp, Leq, LE, Lmax, Lmin
Sound level meter display	Numerical : 4 digits, up data cycle 0.5 s, resolution 0.1 dB Bar graph : scale range 100 dB , update cycle 0.125 s , resolution 0.1 dB Real time clock : year, month, day, hour, minute, second
Signal output	AC output : 2 Vrms (at full scale) DC output : 10 mVDC / dB
Applicable standards	IEC 60651 Type 2, IEC 60804 Type 2, IEC 1260-1995, ANSI S1.4 Type 2
Dimensions (H x W x D)	13 3/16" x 3 1/16" x 2 3/8" (345 x 100 x 60 mm)
Power	120 VAC adapter, four C batteries, external DC power: 6 V, 1 A; approximately 2 hrs

What's included: Microphone wind cover, adjustment screwdriver, PC software on CD, serial cable, carrying case, and four type C batteries.

Catalog No.	Model No.	Description
TS-86510-00	407790	Octave band sound analyzer, Type 2
<b>Accessories</b>		
TS-50519-87	407764	Extension cable, 15 ft (4.5 m)
TS-09386-02	—	Replacement batteries, C, 4/pkg
TS-17111-53	—	NIST-traceable calibration with data