

CEL-500 Series Real Time Analyzers

Introduction

The CEL-500 Series of Real Time Analyzers is a modular design using the latest innovative technology and incorporating the benefits of Digital Signal Processing (DSP) techniques.

Applications

- ☐ Industrial noise assessments
- ☐ Environmental noise surveys
- ☐ Architectural noise studies
- ☐ Product noise development
- ☐ Sound quality investigations
- ☐ Long term noise monitoring

Key features

- ☐ Upgradeability to add options when required
- ☐ Speed of data capture
- ☐ Reliability of design
- ☐ ANSI approved accuracy
- ☐ Modular design
- ☐ Flexibility in operation
- ☐ Large data storage
- ☐ Simple user interface
- ☐ Back-lit display
- ☐ Confidence in results
- ☐ Simultaneous measurements
- ☐ Broadband and octave band versions available
- ☐ Choice of output formats
- ☐ Matching PC software
- ☐ Other measurement options as upgrades to starter unit



CEL-500 Model	Frequency Analysis Resolution		
	Broadband only	Broadband and Octave band	Broadband Octave & 1/3 Octave band
Model designation	A	B	C
Standard CEL-553			3 Modes
Classic CEL-573	2 Modes	3 Modes	6 Modes
Professional CEL-593	3 Modes	6 Modes	9 Modes

CEL-500 Series Real Time Analyzer Applications

Applications	CEL-553C	CEL-573A	CEL-573B	CEL-573C	CEL-593A	CEL-593B	CEL-593C
Sound level analyzer							
Sound level meter mode	√	√	√	√	√	√	√
Snapshot	√	√	√	√	√	√	√
Broadband	√	√	√	√	√	√	√
Real time 1/1 octave	√		√	√		√	√
Real time 1/3 octave	√			√			√
Environmental mode		√	√	√	√	√	√
Fixed profiles		√	√	√	√	√	√
Timed periods		√	√	√	√	√	√
Statistical analysis		√	√	√	√	√	√
Event mode					√	√	√
Threshold exceedance					√	√	√
Event profiles					√	√	√
Fastore mode	◇	◇	◇	◇	√	√	√
Rapid data capture	◇	◇	◇	◇	√	√	√
Building acoustics mode	◇	◇	◇	◇	◇	◇	◇
Reverberation time	◇	◇	◇	◇	◇	◇	◇
Transmission loss	◇	◇	◇	◇	◇	◇	◇
Loudness mode	◇			◇			◇
Sones and Phons	◇			◇			◇
Leq profiles	◇			◇			◇
Logging mode	Δ	Δ	Δ	Δ	Δ	Δ	Δ
Broadband logging	Δ	Δ	Δ	Δ	Δ	Δ	Δ
Timed periods	Δ	Δ	Δ	Δ	Δ	Δ	Δ
Statistical analysis	Δ	Δ	Δ	Δ	Δ	Δ	Δ
Short profiles	Δ	Δ	Δ	Δ	Δ	Δ	Δ
Threshold events	Δ	Δ	Δ	Δ	Δ	Δ	Δ
Real time output	Δ	Δ	Δ	Δ	Δ	Δ	Δ
Remote control	Δ	Δ	Δ	Δ	Δ	Δ	Δ
Other standard features	√	√	√	√	√	√	√
Direct output to printer	√	√	√	√	√	√	√
2 Mbyte memory	√	√	√	√	√	√	√
Download cable to PC	√	√	√	√	√	√	√
Windows™ PC software	√	√	√	√	√	√	√
Up to 1,000,000 results	√	√	√	√	√	√	√
Tape recorder trigger	√	√	√	√	√	√	√
Tripod adapter	√	√	√	√	√	√	√
<i>legend</i>	√ = standard		◇ = optional		Δ = with dual range units		

Ordering Information

The CEL-500 series instruments are normally supplied as complete measurement kits that include the required analyzer model plus the relevant acoustic calibrator that matches the accuracy of the instrument, a foam windscreen, an attaché case, a download cable to a PC and a copy of dB1 (or dB5) Windows™ software.



Typical CEL-5X3 Real Time Analyzer Kit

For full details of each individual instrument please contact your local agent or the Casella CEL sales department.