



Comparison of the CEL-430.A1 with CESVA SC-20c

Key benefits of CEL meter -	CEL-430.A1	SC-20c
DSP technology measures all noise parameters simultaneously for fast and accurate results in all situations. Ultra wide dynamic range of 120 dB means no need to change ranges during measurements. CEL-430 is always on the right range. CEL-430 has auto calibration for easy confirmation of readings. CEL-430 stores up to 99 runs for later download to pc using CEL-6830 dB30 software. CEL-430 has simultaneous 'A' and 'C' frequency weightings useful for NRR and HML measurements for industrial safety applications. CEL-430 can be customized from optional pc software for almost any combination of required noise parameters.		
Acoustic classification – ANSI S1.4, ANSI S1.43	1	1
Dynamic range (dB)	120	107
Measurement range(s) (dB)	20 - 140	23 - 130
Noise floor (dB)	16.5(A), 19.7(C), 23.4(Z)	19.3(A), 23.3(C)
Acoustic parameters measured	Leq, Lavg(4), Lavg(5), Lmx, Lmn, Lpk, Ltm3, Ltm5, LE, Lp	Leq, LE, Lpk, Lmx, Lmn, Lp
Measurement setups available in meter	3 factory default plus 2 user selectable	No
Overload and under-range indicators	Yes	Yes
Run duration indication	Yes	Yes
Pause control to remove unwanted noise from run	Yes	No
Maximum number of parameters measured per run	33	-
Frequency weightings	A, C & Z	A or C
Time weightings	Fast & Slow & Peak	Fast, Slow or Peak
Amplitude weightings (Q exchange rate)	3, 4 & 5	3
Display characteristics	64 x 128 pixel graphical LCD	LCD numeric Text display
Quasi analog bar graph for instantaneous level	Yes	No
Display update rate for numeric results	2 per sec	-
Backlight for use in poor light conditions	Yes	No
Battery type	4 x AA	1 x 9V
Battery life (hr)	15	5
External power option	Yes	No
Memory storage capability	99 runs	1999 runs
Measurement duration	Manually controlled – 1 sec to 24 hours	Manually controlled – Plus Auto 1 sec
Software available	dB30 (as option)	Yes
Analog outputs	AC std. (DC option)	AC & DC
Tripod socket	Yes	Yes
Size (in) height x width x thickness	13.4 x 4 x 1.5	13.2 x 3.2 x 0.8
Weight (oz)	19.3	20.2

Errors & omissions excepted – data based on manufacturer's published information as of Feb 2005