

- Easy to use
- 5.3 Decades of tones
- Tone frequencies from 1.25Hz to 315kHz
- 2 buffered 50Ω BNC outputs (one front, one rear)
- 1 buffered 600Ω BNC output (rear)
- 6 individual decade 50Ω outputs (rear)
- Tone level tolerance +/- 0.1dB, to 100kHz
- Master level attenuator with steps 0dB, -6dB, -12dB, -18dB, -24dB, -30dB,
- Each decade switchable between OFF, 0dB, -10dB, -20dB, -30dB, -40dB
- Differential 100Ω output via rear mounted MS3470-L-833S connector
- Frequency tolerance +/- 25ppm at 20°C.



The Kemo 1/3rd Octave Calibrator 2807 mk3 generates a full set of IEC 61260 / ANSI S1.11 1/3rd Octave Calibration Tones between 1.25Hz and 315kHz. User selection of required decade and level is possible via front panel mounted rotary selectors. These tones are output through a front or rear panel BNC connector and individual decade sets of tone signals are output on a rear panel DB25 connector.

The tones are derived from a series of Read Only Memories, via digital to analogue converters and sophisticated Kemo filters. The frequency of these units is accurately controlled by a quartz crystal master clock and the frequencies of the tones are guaranteed by being digitally derived from it. The analogue outputs are monitored and alarmed if they are low by more than -1dB. The power supply is also monitored and alarmed.



Kemo Limited have produced 1/3 Octave Calibrators for over 40 years and are proud to support Naval activities all around the world, above and below the waves.

Now in our 7th decade of business we continue these traditions and continue to develop and improve performance and functions for our special application products.

Kemo Limited

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Specification

Frequencies

5 Decades / 50 standard 1/3rd Octave tones from 1.25 Hz to 100 kHz
Decade 6 from 125kHz to 315kHz

Decade 1	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	10.0
Decade 2	12.5	16	20	25	31.5	40	50	63	80	100
Decade 3	125	160	200	250	315	400	500	630	800	1 000
Decade 4	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
Decade 5	12500	16000	20000	25000	31500	40000	50000	63000	80000	100000
Decade 6	125000	160000	200000	250000	315000					

Frequency accuracy	< +/- 25ppm, crystal controlled
Tone amplitude	0.1 V rms (-20dBV) with all attenuators set at 0 dB
Amplitude accuracy	< +/- 0.1 dB absolute
Noise level	< -60 dB on tone level in 1 Hz band
BNC Outputs	Front panel 50Ω (combined tones 50Ω source impedance) Rear panel 50Ω (combined tones 50Ω source impedance) Rear panel BNC (combined tones 600Ω source impedance)
Other Outputs	Rear panel 100Ω balanced MS3470-L-833S (combined) Rear panel 25 way 'D' type with individual decades of tones
Output Impedance	50 Ω to 600Ω on different outputs
Minimum Load Impedance	500 Ω
Individual Decade Attenuator	0dB, -10dB, -20dB, -30dB, -40dB, OFF
Master Attenuator Ranges	0dB, -6dB, -12dB, -18dB, -24dB, -30dB.
Power Input	120 / 240 V ac, 40VA
Power Input Connector	IEC 6A
Dimensions	1U 19" x 350mm (including mounting brackets)
Weight	≈4.4kg



Individual decade controls provide tone selection and attenuation of each decade independently.

Master attenuation allows all tone levels to be changed at the same time.

Due to continued product development Kemo Limited reserve the right to change specification without notice.

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