
FLAC-compressed wave file (44.1 kHz, 16 bit, stereo)
==========

Please verify correctness of meter ballistics programmatically. Calculated values are only valid in “RMS” mode. Small differences due to time granularity of validation logging are acceptable.

```
00:00.000 - 00:02.000  silence
00:02.000 - 00:12.000  sine wave (2 kHz, 0.0 dB FS peak)
00:12.000 - 00:12.600  silence

00:12.600              [check fall time of average meters]

00:12.600 - 00:14.600  sine wave (2 kHz, 0.0 dB FS peak)
00:14.600 - 00:24.600  silence
00:24.600 - 00:25.200  sine wave (2 kHz, 0.0 dB FS peak)

00:25.200              [check rise time of average meters]

00:25.200 - 00:27.200  silence
00:27.200 - 00:37.200  sine wave (2 kHz, 0.0 dB FS peak)
00:37.200 - 00:40.200  silence

00:40.200              [check fall/rise time of peak meters]

00:40.200 - 00:42.200  sine wave (2 kHz, 0.0 dB FS peak)
00:42.200 - 00:44.200  silence
```

Validation settings
==========

```
File:     meter_ballistics.flac
Host SR:  44 100 Hz
Channel:  RMS: All, ITU-R: 1
Display:  [x] Peak meter level
          [x] Average meter level
          [ ] Maximum peak level
          [ ] Stereo meter value
          [ ] Phase correlation
```

Metering minima
==========
For the calculations, see the Python script “meter_ballistics.py”.

Fall time of average meters (sine wave, 0.0 dB FS peak)
==========
99% of final reading in 600 ms integration time

Fall time average (K-20): -72.09 dB   (ITU-R: -69.2 dB)
Fall time average (K-14): -78.09 dB
Fall time average (K-12): -80.09 dB
Fall time average (Norm): -92.09 dB

Rise time of average meters (sine wave, 0.0 dB FS peak)
==========
99% of final reading in 600 ms integration time

Rise time average (K-20): +19.07 dB   (ITU-R: +21.4 dB)
Rise time average (K-14): +13.07 dB
Rise time average (K-12): +11.07 dB
Rise time average (Norm):   -0.93 dB

Fall time of peak meters (sine wave, 0.0 dB FS peak)
==========
-26 dB in 3 seconds

Fall time peak (K-20):   -6.00 dB
Fall time peak (K-14): -12.00 dB
Fall time peak (K-12): -14.00 dB
Fall time peak (Norm): -26.00 dB

Rise time of peak meters (sine wave, 0.0 dB FS peak)
==========
immediate (one sample)

Rise time peak (K-20): +20.00 dB
Rise time peak (K-14): +14.00 dB
Rise time peak (K-12): +12.00 dB
Rise time peak (Norm):   +0.00 dB