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*K-Meter*

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*Implementation of a K-System meter according to Bob Katz' specifications*

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

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Please verify readout of overflow counter by making use of your eyes and ears. In "ITU-R BS.1770" mode, the number of overflows must equal the sum of overflows in each channel.

Given values describe the left channel. The right channel is delayed by one second and contains a sine wave with a frequency of 500 Hz.

00:00.000 - 00:02.000   silence

00:02.000 - 00:05.000   sine wave (150 Hz, -5.5 dB FS peak)

[both channels:   first audible click must not register]  
[both channels:   second audible click must register]

[left channel:   a total of 16 clips must register]  
[right channel:   a total of 9 clips must register]

00:05.000 - 00:07.000   silence

#### **Validation settings**

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File:        overflow.flac

Host SR:    44 100 Hz

Channel:    All

Display:    [ ] Average meter level  
             [ ] Peak meter level  
             [ ] Maximum peak level  
             [ ] Stereo meter value  
             [ ] Phase correlation

### **Samples reaching digital full scale**

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both channels: 1 sample of integer level 32'764  
1 adjoining negated sample of integer level 32'764

**--> these peaks MUST NOT register**

both channels: 1 sample of integer level 32'765  
1 adjoining negated sample of integer level 32'765

**--> these peaks MUST register**

left channel: 4 continuous positive samples

left channel: 2 continuous negative samples

left channel: 1 positive sample  
1 adjoining negative sample

left channel: 2 continuous positive samples  
1 "valid" sample  
2 continuous negative samples

right channel: 1 positive sample

right channel: 1 negative sample  
1 adjoining positive sample

left channel: 1 negative sample

left channel: 1 positive sample

right channel: 2 continuous negative samples  
1 "valid" sample  
2 continuous positive samples