## **Application Note: CWT AC Current Probes –** what is minimum recommended current?



## **OVERVIEW**

As a 'general rule', for customers using the CWT probes with an oscilloscope we have always advised the dynamic range of any of the CWT is approximately 100:1, so that the minimum current is at least five times the 'Noise max' quoted on the CWT datasheet.

For example, the CWTMini 6 has a peak current rating ±1200Apk, and a 'Noise max' of 10mVp-p (±2Apk), 1.6mVrms (0.32Arms), therefore

- A 100:1 dynamic range means it will measure down to at least ±12Apk
- This is at least > 5 times the 'Noise max' quoted on the datasheet

With the noise predominantly centred around the low frequency (-3dB) it is possible to resolve smaller currents at higher frequency.

More detailed information on accuracy supplied in the Technical notes relating to Accuracy on page 10, Section 3, of the <u>CWT Technical notes</u>.

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