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Electronic

Measurements

CERTIFICATE OF CALIBRATION

Rogowski Current Waveform Transducer

Specified Sensitivity Peak Current rating Serial Number Coil Length Type **CWTMini HF06B** 34213-6390 0.12 50.0 300 mV/A mm ≶

EQUIPMENT USED FOR CALIBRATION

[C] Digital Multin	[B] A Pearson C calibration ce	An oscillator multi-turn exc
Digital Multimeter: Keithley Instruments Ltd. Model 2000.	A Pearson Current Monitor: Model 411 having a UKAS calibration certificate, sensitivity nominally 100mV/A.	An oscillator and power amplifier providing a sinusoidal current to a multi-turn excitation coil. The current is monitored by [B].
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CALIBRATION PROCEDURE

The current source [A] excites a multi-turn excitation coil. The Rogowski coil is looped through the excitation coil such that the test current is approximately central in the Rogowski loop.

		The measured Rogowski transducer voltage after calibration is		Rogowski transducer voltage (as received)	Corresponding transducer current	Frequency
sensitivity.	which corresponds to the specified	1.000	which is / is not within the specified tolerance (±1%) of its correct value.	N/A	20.0	4kHz
	ጸ	V rms	ne eo	V rms	A rms	

ACCURACY

- \equiv Where the digital voltmeter [C] is used only to compare two substantially equal voltages, the accuracy of [C] is not relevant. Taking into account the specified uncertainty of the [B] calibration, the typical drift of the [B] calibration over one year and the error in adjusting the Rogowski transducer voltage to match its correct value, the estimated accuracy for the calibrated sensitivity value is ±0.2%.
- \equiv Where voltage equality cannot be achieved, the uncertainty of [C] causes the estimated accuracy of calibration to q
- \equiv If the position of the current is moved within the Rogowski loop, (but not directly adjacent to the ferrule), the measured voltage will differ from its calibrated value by not more than, typically, $\pm 2\%$.

Calibration performed by	
ormed by (L. G.	
Date	
Date 12 February 2016	