Model 1000 Toroidal Turns Analyzer
Standard Configurations

Model	Features	Frequency	Ranges
1000 mk iii	Available in frequency to 60 KHz	10 kHz standard	200; 5,000
1000-A	Micro-processor controlled	10 kHz std., 400 Hz avail.	5,000
1000-B	Larger case size for power cores	400 Hz standard	200; 2,000; 20,000
1000-C	Selectable frequency and range	400 Hz, 10 kHz	200; 5,000
1000-CA	Selectable frequency, auto-ranging	400 Hz, 10 kHz	200; 5,000

The Model 1000 is available in 4 basic configurations. The 1000 mk III version is designed for ferrite cores as used in low power and signal transformers and chokes. It can also measure toroids with permalloy cores. Several new features have been added. Overall accuracy is improved by offering individual calibration ranges for 200 and 5,000 turns. Temperature drift is reduced to .1% / 5°C.

The 1000-A uses the SDT-400 microprocessor to auto-range to 5,000 turns. It also incorporates an internal reference coil for improved temperature stability. It offers a measurement repeatability of 1 turn in 2,000 (.05%).

The 1000-B is designed to test larger silicon steel cores. It uses a larger case that will accept up to a 10” (25 cm) diameter toroid. The -B tests at 400 Hz and uses higher drive levels to magnetize steel cores. Three range counts are provided: 200; 2,000 and 20,000.

The 1000-C offers two test frequencies that are selected by a front panel control. A high/low range switch is provided to select 200 or 5,000 turn ranges. By offering two test frequencies, the 1000-C allows both laminated and powdered core materials to be measured accurately. It is necessary to select the proper frequency and range scale in order to achieve maximum accuracy for a given core type. The –CA version includes auto-ranging and measurement averaging for greater stability and ease of use.

IEM offers a number of standard and customized test systems. We will be happy to discuss your specialized coil testing requirements.

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