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Custom Current Monitor Guide

Pearson Electronics has designed and manufactured many custom current monitors. Some of these designs are of interest beyond the original customers because of the solutions they provide to particular measurement problems. Following is a list of some of these models with their salient specifications and applications.

- 6247 This design reduces eddy-current heating in high-frequency high-current applications such as induction welding equipment. It can measure 100 A rms at 110 kHz.
- 6535 A thin version of our 2877 series, the thickness is 7 mm, and the sensitivity is 0.005 V/A.
- 5949 This is a 4 inch hole clamp-on, with 0.5 V/A sensitivity.
- 804 A 2 inch hole model similar electrically to Model 410, it is used where there is a large average current component.
- 6027 This unit has input and output BNC connectors to fit in a coaxial line without the need to separate inner and outer conductors. Current is viewed from the side output BNC connector.
- 5523 A 1 inch hole diameter clamp-on model, 0.1 V/A sensitivity, 20 ns rise-time
- 3212 This is a 0.01 V/A model with 2 inch hole. It has higher current time product without need for biasing than similar standard models.
- 3382 A 0.1 V/A unit with a 15 inch hole
- 5870 A 1 inch hole clamp-on with mounting plate, used in high rms current applications.
- 5550 A 100:1 ratio current-to-current model with screw terminal output, used for current range extension on digital power meters.

- 4936 A double shield version of Model 411, used in electrically noisy environments
- 5673 A 2 inch hole unit with 100 A rms rating, 40 MHz high frequency limit, for measuring 13.56 MHz current in plasma machine applications
- 4285 A low droop version of Model 1010, useful when large clearance is needed for high voltage.
- 3904 Our largest hole clamp-on, at 18.5 inches. Use on a space-craft launch tower for monitoring lightning strikes
- 5974 A thin version (0.5 inches thick) of Model 411
- 4191 A 4 inch hole model with 0.01 V/A sensitivity and 40 ns rise-time
- 2964 A 1 inch hole diameter unit with 0.25 V/A sensitivity and 10 ns rise-time
- 6656 A 3.5 inch hole diameter model with 1 V/A sensitivity and 3.5 ns rise-time, used for charged particle beam current measurements