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Non-Contact Capacitive Displacement Modular Amplifier









4000 Series

The 4000 Series Modular non-contact capacitive displacement instrumentation is designed to offer the ability to drive maximum cable length with very small sensor diameters yet yield exceptionally large linear ranges. They are available in several bandwidths where 232Hz - 3dB is standard.

The small Euro-style 2U size boards have appeal for small lightweight packaging applications. When coupled with Capacitec multiple channel non-contact displacement probes, they produce a linear output voltage proportional to the gap spacing between the probe and a ground plane. The capacitive amplifier systems are designed to produce stable and reliable operation with excellent gain and zero shift stability with respect to changes in ambient temperature.

The modular amplifier cards are designed to operate with every probe diameter configuration and several sensitivity ranges by simple recalibration.

CE models are available.

The multi channel capacitive amplifier systems are configured according to your specific needs with the following choices:

Capacitec 4000 Capacitive Series Racks:

4004: The 4 Channel rack (front view) is about 5” wide with 5 actual slots and holds up to 4 capacitive amplifier cards with individual 0-10VDC analog outputs and a clock driver card in the last slot. The rack’s rear panel holds a BNC female connector for each primary analog output plus a 24-pin analog output connector with three input/outputs for computer or data acquisition interface and option cards.

An internal AC power supply is available standard by signifying -P100, -P115, -P220 or -P240 (AC). A ±15VDC/350mA power supply, which provides 3 additional 5 VDC, signals with a - 5VDC suffix option to the AC rack is also as an option. Optional DC/DC power supplies are available upon request.

4008: The 8 Channel rack (front view) is about 9” wide with 9 actual slots and holds up to 8 capacitive amplifier cards with the same standard features as the 4004. The power supply options are also the same except the ±15VDC power provides 500mA.

4016: The 16 Channel rack (front view) is about 19” wide with 17 actual slots and holds up to 16 capacitive amplifier cards with the same standard features as the 4004. The power supply options are also the same except the ±15VDC power provides 850mA.

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