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Signal Conditioners

LABORATORY-STYLE CHARGE AMPLIFIERS

The basic function of a laboratory charge amplifier is to convert the high-impedance charge from a piezoelectric sensor into a low-impedance voltage signal compatible with readout instruments. Signal normalization and gain adjust features allow the user to take advantage of the very wide dynamic range of a piezoelectric sensor.

BASIC "DIAL SENSITIVITY" CHARGE AMPLIFIER

Model 462A is an economically priced multi-range charge amplifier designed for use with quartz and ceramic piezoelectric sensors.

This unit has 11 selectable ranges from 5 to 1000 000 pC, accommodating very large inputs from high-range quartz pressure sensors. The sensitivity dial is adjustable for sensors in 0.1 to 1.1 pC range, which matches most quartz pressure sensors. Sensor sensitivities greater than 1.1 pC/psi can be accomodated. A rear panel CAL INPUT provides for checking range and sensitivity settings. Other features include a switch-type ground to prevent ESD damage when connecting long cables. A three-position time constant switch can be set on "Long" for static calibration and quasi-static measurements, "Medium" for drift-free dynamic operation, and "Short" for use with ceramic sensors.

Options include plug-in filters, a remote ground relay, and rack mounting.

DUAL MODE CHARGE AMPLIFIERS

Models 463A and 464A operate with charge mode piezoelectric sensors and provide a current source for coupling to ICP® voltage mode sensors.

Model 463A is a multi-range "Dial-Cal" charge amplifier similar to the Model 464A with many of the same features. The significant operational differences of model 463A are the built-in calibration features and ranges expressed in psi, g, or lb *Full Scale,* instead of *units per volt.*

Model 464A is multi-range "Dial-Sensitivity" model similar to the Model 462A described above. Operation simply involves switching to the "Charge" or "ICP" mode, dialing in the sensor sensitivity, and switching to the desired range, which reads in units per volt. Plug-in filters, calibration input, and remote ground are standard features.

PCB charge amplifiers have a three-position selectable input time constant (TC) switch. The long TC position allows for static calibration of quartz sensors as well as quasi-static measurements in thermally stable environments; the medium TC provides for drift-free dynamic operation; and the short TC position is used for operation with ceramic-type sensors.

See the *PCB Electronics for Piezoelectric Sensors* catalog for complete information on these products.



462A



463A

SUNSTAR自动化 http://www.sensor-ic.com/ TEL: 0755-83376489 FAX:0755-83376182 E-MAIL:szss20@163.com
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