



New solutions to old problems.....



C/A3 Signal Conditioners

The C/A3 is the latest in the CMR Ltd range of stylish high quality, low cost, accurate and reliable charge amplifiers. This new version accepts both mV and charge output accelerometers independently on each channel. It is also designed to interface with triaxial accelerometers, so now comes as standard with three channels. It has a wide sensitivity range from 00.01 to 99.99 pC/g and 000.1 to 999.9 mV/g and has output gains of x1, x10 and x100. Lacking the complex setup menus found in other charge amplifiers this unit can be up and running in seconds giving high accuracy results from 0.5 Hz to 100kHz.

The rugged design, proven reliability and low recalibration charges means that cost of ownership is extremely low and down time is minimal (CMR Ltd offer 2-3 day calibration turnarounds as standard). The design uses high quality precision components that ensures stable and repeatable readings. The C/A3 is compatible with all the leading manufacturers charge and mV output accelerometers and because of its flexible design, it is the only signal conditioning unit you will ever need for these types of devices.

As a mV (ICP®) input device the C/A3 is fully compatible with other sensors with ICP® outputs such as microphones, force transducers and pressure sensors ensuring the C/A3 is a flexible option for any test house or laboratory.

Inputs are by way of microdot connectors, located on the front panel and accept standard microdot low noise cable assemblies.

Outputs are industrial standard BNC sockets normalised to 10mV/g/100mV/g or 1V/g by the front panel switch.

The whole unit is housed in a tough ABS case, which is not only hard wearing but stylish as well. The unit is free standing and comes as standard with raised and tilt feet for maximum versatility.

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SPECIFICATION

SENSITIVITY RANGE	00.01 to 99.99 (charge) and 000.1 to 999.9 (ICP®)
FREQUENCY RESPONSE (max) CHARGE	0.5Hz - 100kHz \pm 0.5dB
ICP®	0.5Hz - 100kHz \pm 1dB
LINEARITY	0.25%
ACCURACY	\pm 1% Max typically 0.5%
NOISE	> 70dB down
MAX. O/P BEFORE CLIPPING	10 VOLTS r.m.s.
SWITCHABLE OUTPUTS	10/100mV/g and 1V/g
SENSOR SUPPLY	24Volts DC at 4.7mA

CONNECTORS

INPUT	MICRODOT SERIES
OUTPUT	BNC
POWER	FILTERED IEC MAINS SKT
EARTH STUD	M5 KNURLED CLAMP
POWER ON INDICATION	FRONT PANEL LED

POWER SUPPLY (internal)

+18 VOLT	0.5A
-18 VOLT	0.5A
+24 VOLT	0.5A
+5 VOLT	0.5A

DIMENSIONS C/A3 OVERALL

WIDTH	152mm
HEIGHT	170mm
DEPTH	235mm

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