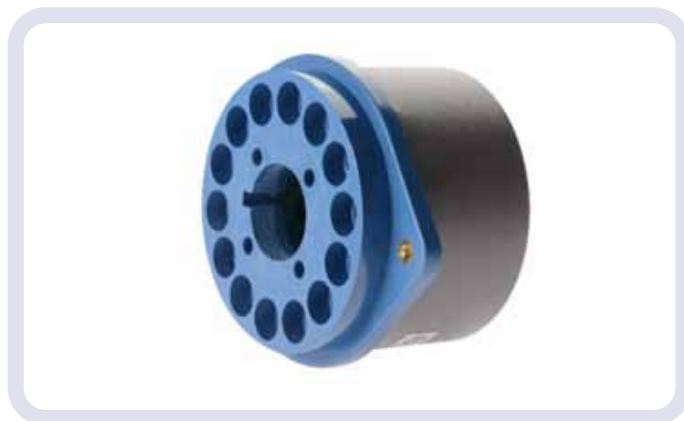


multi-channel analyser base

MCA51CP data sheet (provisional)

1 description

The MCA51CP is a low cost high performance multi-channel analyser (MCA) base designed for gamma ray spectroscopy applications with NaI(Tl) scintillation detectors. The base consists of a high voltage power supply (HVPS) capable of supplying up to 2000V and a preamplifier. The unit is compatible with standard 14 pin detectors using 10 stage PMTs. MCA51CP is very easy to use and the unit is powered by USB 2.0 or above. The unit uses histogram mode acquisition and data channels are 16 bits.



2 applications

Gamma ray spectroscopy with NaI(Tl) scintillation detectors

3 features

- compact
- low power consumption
- low cost

4 specifications

conversion gain	1024 channels
power consumption	
voltage	5V
current	56mA
dead time	9µs
pulse pair resolution	9µs
detector voltage	0 to 2000V
maximum frequency	70kHz
count rate linearity <5%	up to 60 kHz
USB type	2.0 or higher
connector	micro USB type AB
warm up time	1s
temperature (operating)	5-55 °C
temperature (storage)	-40 to 60 °C
weight	100g

all dimensions in mm

