

Overview

MCA of lightweight compact size equipped with high-speed successive-approximation type ADC on each CH. It operate with USB bus power. Additionally, it is 4CH MCA where the list mode is possible.

Lightweight & Compact

Features

- Input: **4 channels**
- Dead time: **1.5 μ s**
- Output: **50 kcps and more**
- ADC Gain: **4096, 2048, 1024, 512 ch.**
- Measurement Mode: **Spectrum, List**
- Function: **Coincidence, MCS (Multi channel scaler)**
- Data transfer: List data 100 kcps per sec. and more

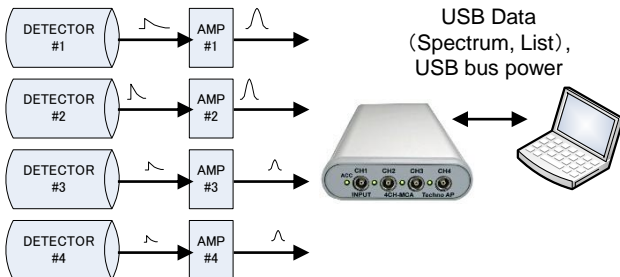


LIST Data

Event #1	Empty(4bit)	Time(44bit)	CH(2bit)	PHA(14bit)
Event #2	Empty(4bit)	Time(44bit)	CH(2bit)	PHA(14bit)
:				
Event #N	Empty(4bit)	Time(44bit)	CH(2bit)	PHA(14bit)

*Data Size 8 Byte per Event, Time 40 ns per bit

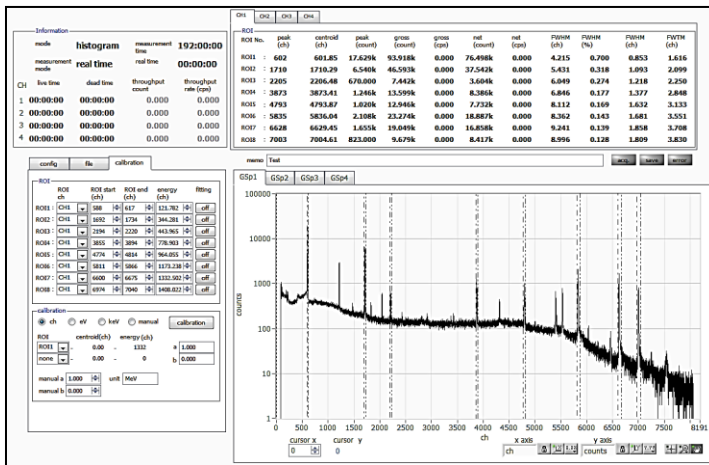
GATE & VETO Input support



Connection image

Specifications

Analog input	4 channels LEMO 00 series connector
Input range	0 to +10 V
Input impedance	1 k Ω
Entrant pulse width	100 ns (min.) to 100 μ s (max.)
Integral non-linearity	Less than ± 0.025 %
Differential non-linearity	Less than ± 1 %
Threshold	0-50 % Full-scale from PC
ADC LLD	0-100 % Full-scale from PC
ADC ULD	0-100 % Full-scale from PC
External Gate Input	LEMO 00 series connector TTL, Active High
External VETO Input	LEMO 00 series connector TTL, Active Low
Communication I/F	USB 2.0, USB mini B receptacle
Operation System	Windows 7 (32, 64-bit) or later
External dimensions	W70 x D160 x H20mm
Weight	About 230 g
Accessories	Driver, Application software USB cable



Application Software Example

Python

Linux

LabVIEW

Visual C++

Visual C#

We provide sample program free

*Images is for illustration purpose.

*Please note that contents may change without prior notice.

