

APG7400A USB-MCA4

List mode data acquisition, USB bus power

JAPAN MADE

MCA

20190712

APG7400A is 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.

- Channel **4CH**
- Fixed dead time **1.5μs**
- Output **50kcps and more**
- ADC Gain **16384, 8192, 4096, 2048, 1024, 512ch**
- Mode **Spectrum, List**
- Power **USB bus power**
- Body **Lightweight, Compact aluminum case.**
- Interface **USB2.0**
- Data transfer **List data 100kcps/sec and more**
- Software **Driver & Application**

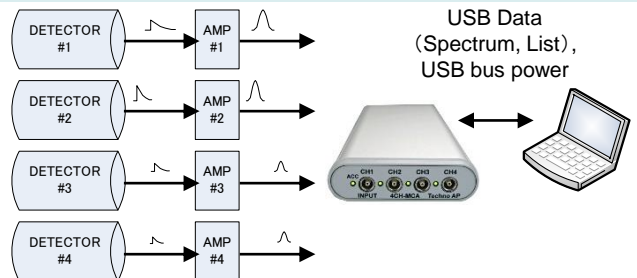


APG7400A USB-MCA 4
(Upper : Front, Under : Rear)

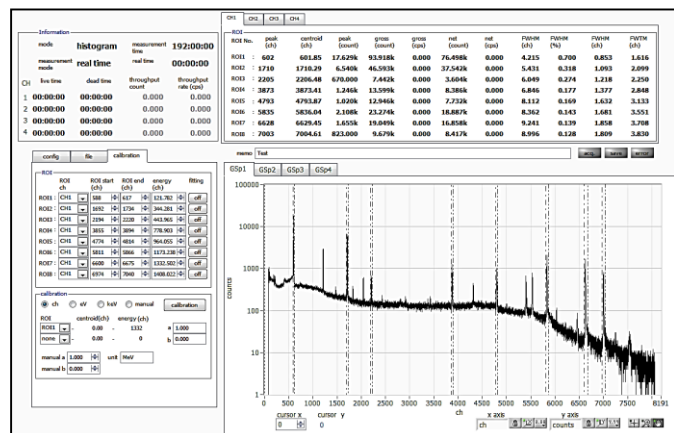
LIST Data

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 8Byte/Event, Time 40ns/bit



General configuration example.



Window of Software

*Images is for illustration purpose.
*Please note that contents may change without prior notice.

Website



Specifications

Analog input	4CH LEMO 00 series connector
Input range	0~+10V
Input impedance	1kΩ
Entrant pulse width	100ns (min.) ~ 100μs (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
LED	POWER, ACCEPT
Interface	USB 2.0 USB mini B receptacle
OS	Windows 7 (32, 64bit) or later
Accessory	CD (Driver, Application) USB cable
External dimensions	70(W) x 160(D) x 20(H) (Unit: mm)
Weight	About 230g

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