MCA with Spectroscopy Amplifier

TechnoAP

APG7305A

USB bus power

MCA

Overview

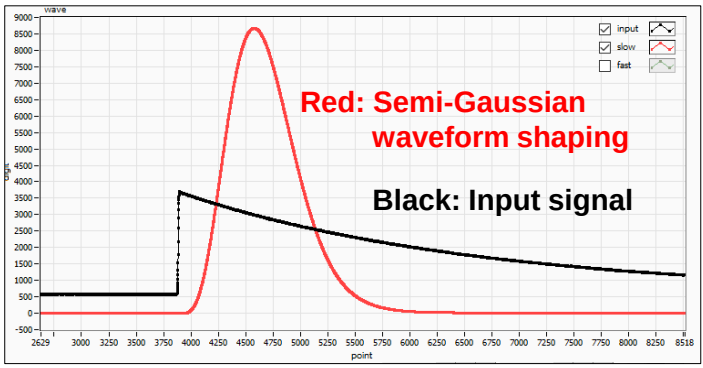
Compact size USB connected multichannel analyzer (MCA) that realizes semi-Gaussian waveform shaping of spectroscopic amplifier by digital signal processing. Parameter settings such as shaping time, gain, and pole zero can be changed from PC to programmable. It has low noise, wide gain, many shaping times, and it is compatible with a wide range of detectors such as semiconductor detectors, proportional counters and scintillation detectors. Moreover, it is possible to obtain a very stable and high resolution by the automatic gated Baseline Restorer.

Lightweight & Compact

GATE & VETO Input support

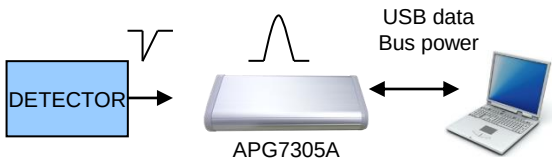
Feature

- Shaping time: **0.25, 0.5, 1, 2, 3, 4, 6, 8, 10 μs**
- ADC gain: **16k, 8k, 4k, 2k, 1k, 512, 256 ch.**
- Power supply: **USB bus power, AC adapter not required**
- Software: **Driver & application included**

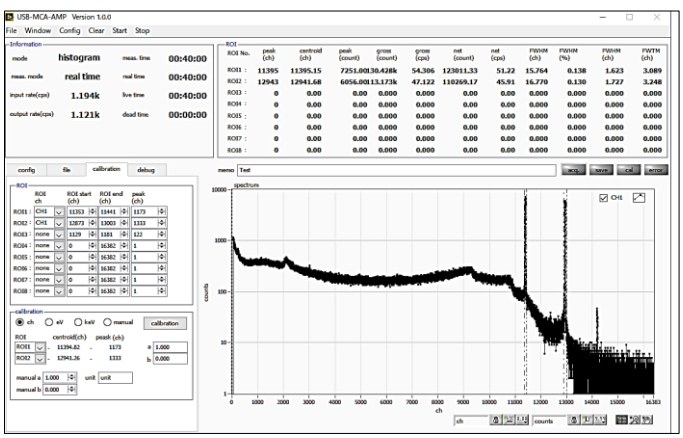


Specifications

Analog input	1 channel, LEMO connector
Input range	± 1.5 V preamplifier decay signal
Pulse shape	Semi-Gaussian peaking time 2.2τ
Shaping time	0.25, 0.5, 1, 2, 3, 4, 6, 8, 10 us
Baseline Restorer	Auto Active gate
Gain	×1 to 500
ADC Gain	16k, 8k, 4k, 2k, 1k, 512 ch
Peak detect mode	Absolute pulse
Throughput	50 kcps or more
Integral nonlinearity	±0.025 % or less
Differential nonlinearity	±1 % or less
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 VETO input	LEMO connector, TTL, High / Low
Measurement Mode	Spectrum / WAVE
Communication I/F	USB 2.0, USB mini B receptacle
Power supply	USB bus power
OS	Windows 10, 8.1 and 7
Dimensions (unit: mm)	70 (W) x 160 (D) x 20 (H)
Weight	About 230 g
Accessories	Driver, Application software USB cable



Connection image



Screen of the application software

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

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