

### Overview

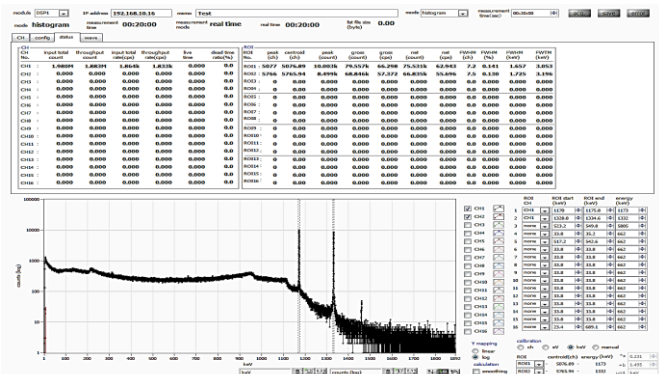
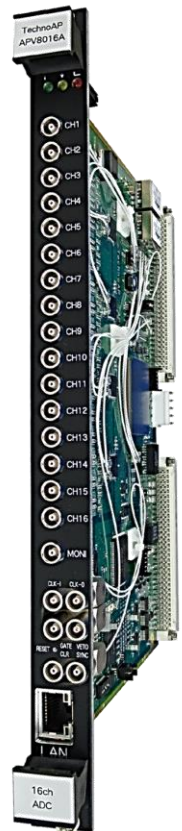
The APV816AMP is a multi-channel analyzer (MCA) with up to 16 channel inputs that realizes the semi-Gaussian waveform shaping of spectroscopic amplifier by digital signal processing. Parameter settings such as shaping time, gain, and pole zero can be changed from the PC in a programmable manner while maintaining the ease of use of the analog amplifier.

### Feature

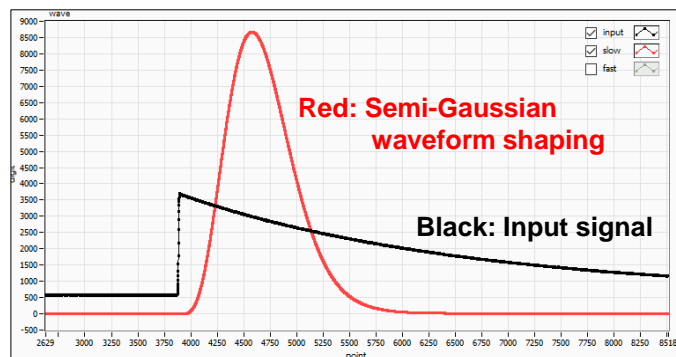
- Input: **16 channel**
- Energy Resolution: **1.70 keV @ 1.33 MeV**
- Throughput: **50 kcps and more**
- Measurement Mode: **Histogram, List, Waveform**
- Communication I/F: **TCP/IP, Gigabit Ethernet**
- Form: **VME6U size** \*Can be made standalone

### Specifications

Analog Input	16 channel, LEMO connector Input impedance: 1 kΩ
Input Range	±2V decay signal by preamplifier
Pulse Shape	Semi-Gaussian peaking time 2.2 τ
Shaping Time	0.125 / 0.25 / 0.375 / 0.5 / 0.75 / 1 / 1.5 / 2 / 3 / 4 / 5 / 6 / 8 / 10 / 16 us
Baseline Restorer	Auto active gate
Gain	x 1 – 500
ADC Gain	16k, 8k, 4k, 2k, 1k, 512, 256 ch.
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 Input GATE, VETO	LEMO connector, TTL, High / Low
Dimensions Unit: mm	VME6U: 20(W) x262(H) x187(D) Standalone: 300(W) x56(H) x335(D)
Weight	VME6U: approx. 460 g Standalone: approx. 3360 g



Application operation screen (histogram)



Red: Semi-Gaussian waveform shaping

Black: Input signal

