



The EGW3043 tube-mounted multi-channel analyzer is a tube-mounted pulse height analyzer that contains a 14-pin photomultiplier tube base, a built-in 4096-channel resolution MCA and supporting amplifiers, high-voltage power supplies, etc., and can work in a single channel Discrimination counter mode or multi-channel pulse height analyzer mode. The device is powered by DC low voltage, and the control and data output interfaces are network interfaces. The original ADC data can be output in List mode, or the energy spectrum data can be output directly. Select a suitable detector, connect it to a computer, and use the supporting energy spectrum collection and analysis software to collect, display energy spectrum, and automatically find peaks: after energy calibration, artificial and natural isotopes can be identified.

Main Features and Technical Parameters

- 1, MCA Resolution: 4096
- 2, Sample hold and ADC conversion time: 2μs
- 3, Input pulse analysis range: 0~+5V
- 4, Input count rate: 100kcps (20% count rate loss), suitable for high γ intensity application
- 5, Data interface: TCP/IP (RJ45)
- 6, Built-in voltage divider and Pre- amplifier and main amplifier, built-in high-voltage power
- 7, Data output mode: List mode/Spectrum mode

- 8, Matching software function: energy spectrum acquisition,display, ROI analysis, energy spectrum smoothing, automatically finding peak and identifying isotopes, etc.
- 9, Provide data communication protocol, users can develo collection and processing programs by themselves based on the communication protocol
- 10, It can be matched with NaI(Tl), LaBr.(Ce) and other scintillation detector, and can be used via 14-pin E687-14W tube socket connecting with the photomultiplier tube (PMT) with 8-level or 10-level dynode structure

● Use Environment

- 1 Ambient temperature: 0~40℃
- 2 Relative humidity: ≤90%(30℃)
- 3 Power supply: DC5V~12V

● Dimension and Weight

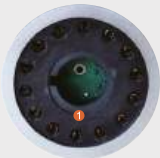
Instrument size(host): Ø64 mm×110 mm
Instrument weight(host): 0.35kg

Notes: The corresponding tube base and matching voltage divider can be selected according to matching with different specifications of photomultiplier tubes, and the shape, size and weight will change accordingly.

Interface Introduction



- ① DC 5-12V(Shell is ground)
- ② RJ45 network interface



- ① E678-14W

Drawing

