

MIRION TECHNOLOGIES

Features

- Surpasses the performance of a 100 mm long, 13 mm diameter He³ tube at four atmospheres
- All-in-one detector, electronics, and MCA
- Miniaturized package: 131 x 33 x 24 mm, 110 g
- USB Connection to PC for control and power
- Power consumption: <250 mW</p>

TN-15 – High Sensitivity Ultra-compact Thermal Neutron Scintillation Detector

Description

The TN-15 high sensitivity thermal neutron detector utilizes a state-of-the-art Silicon photosensor (SiPM) and offers world-leading specification in a compact form. The TN-15 surpasses the performance of a 100 mm long 13 mm ³He tube at four atmospheres.

This highly compact device is completely self-contained, with a built-in preamplifier, shaping amplifier, pulse discrimination, and HV supply. The digitized neutron data is sent to a PC via the mini-USB which also powers the unit, so no external power supply is required.



TN-15 Thermal Neutron Scintillation Detector

The TN-15 comes with K-Spect, Kromek's entry-level Windows®-based (XP/Vista/7/8) software, built for detailed sample and spectral analysis.

K-Spect, which is available to download, free of charge, from the Kromek website, provides the spectrum acquisition, display, analysis, and storage functions.

Specifications

PERFORMANCE

- DETECTOR Neutron Sensitive Scintillator with SiPM detector.
- INTRINSIC EFFICIENCY -> 50%.
- MAXIMUM THROUGHPUT 10,000 cps.

PHYSICAL

- HOUSING SIZE 131 x 33 x 24 mm (5.16 x 1.3 x 0.9 in.).
- WEIGHT 110 g (3.9 oz).

INPUTS/OUTPUTS

- USB (mini USB Connector) Signal and Power.
- POWER CONSUMPTION 250 mW.

ENVIRONMENTAL

■ OPERATING TEMPERATURE RANGE - -10° to +40 °C (+14 to +104 °F).

www.canberra.com

CANBERRA

TN-15 – High Sensitivity Ultra-compact Thermal Neutron Scintillation Detector

ORDERING INFORMATION

TN-15 Compact Thermal Neutron Detector

Other Ranger Family Products

GR1

- GR1 Gamma-Ray Spectrometer with
- 2.5% FWHM resolution at 662 keV
- Without MCX I/O ports

GR1+

- GR1+ Gamma-Ray Spectrometer with
 - 2.0% FWHM resolution at 662 keV
 - Without MCX I/O ports

GR1-A

- GR1-A Advanced Gamma-Ray Spectrometer with
 - 2.5% FWHM resolution at 662 keV
 - With MCX I/O ports (includes 3x MCX to BNC adaptors)

GR1-A+

- GR1-A+ Advanced Gamma-Ray Spectrometer with
- 2.0% FWHM resolution at 662 keV
- With MCX I/O ports (includes 3x MCX to BNC adaptors)

ISXCZT-GR1

Generic ISOCS Characterization for the GR1, GR1+, GR1-A or GR1-A+

SIGMA25

USB enabled CsI scintillator (1" x 1" x 1") detector with integrated MCA

ISXCSI25 Generic ISOCS Characterization for the SIGMA25

SIGMA50 USB enabled CsI scintillator (1" x 1" x 2") detector with integrated MCA

ISXCSI50 Generic ISOCS Characterization for the SIGMA50

LAB CPG (10 x 10 x 10) 1 cm³ CZT detector for use with external MCA electronics

ISXCZT-LAB1000 Generic ISOCS Characterization for the LAB CPG (10 x 10 x 10)



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