

GM-40 Series

The GM-40 series of detectors are designed to be used with all [RAM DA2000](#) Radiation Monitors for measuring gamma radiation over a very wide range. Combined with the special features of the RAM DA 2000 monitors, these detectors make an excellent choice for maintaining the highest safety standards in industrial, medical, research, environmental and public safety applications.



The GM-40 detectors are encased in a rugged, splash proof housing for protection against shock, vibration and humidity.

A low voltage interface connects the RAM DA 2000 monitor and detector. Therefore each detector contains the appropriate GM tube and high voltage power supply, pulse shaper, GM saturation indicator, detector identifier and malfunction detection circuitry. This configuration minimizes noise, improving sensitivity and stability.

Specifications

	GM-40	GM-41	GM-42
GM Type	ZP 1301	ZP 1313	ZP1201
Measuring Range	250 μ Sv/hr - 10Sv/hr (25mR/hr - 1000R/h)	50 μ Sv/hr - 1Sv/hr (5mR/hr - 100R/hr)	0.5 μ Sv/hr - 10mSv/hr (50 μ R/h - 1R/hr)
Display Range	10 μ Sv/hr - 10Sv/hr (1mR/hr - 1000R/h)	2 μ Sv/hr - 1Sv/hr (0.2mR/hr - 100R/hr)	0.05 μ Sv/hr - 10mSv/hr (5 μ R/h - 1R/hr)
Sensitivity (¹³⁷Cs)	30cps/mSv/hr (0.3cps/mR/hr)	200cps/mSv/hr (2cps/mR/hr)	1800cps/mSv/hr (18cps/mR/hr)
Accuracy	±15% of reading within the measuring range		
Energy Range	70keV - 1.3Mev	50keV - 1.3Mev	50keV - 1.3Mev
Angular Dependence	Less than 20% for ±45° preferred direction		
Output Signals	TTL pulses. Detector status: ID, OK, malfunction, GM saturation		
Temperature Range	Operation: -10°C to +50°C (15°F - 122°F) Storage: -20°C to +60°C (-5°F - 140°F)		
Humidity Range	40% to 95% RH (non condensing)		
Dimensions	170mm (6.7") length 38mm (1.5") diameter	170mm (6.7") length 38mm (1.5") diameter	197mm (7.75") length 38mm (1.5") diameter
Weight	220g (0.48lbs)	200g (0.44lbs)	250g (0.55lbs)

Casing	Aluminum, splash proof
Max. Cable Length	100 meters

Ordering Information

GM-40 - GM Tube BAK-1180

GM-41 - GM Tube BAK-1190

GM-42 - GM Tube BAK-1210

Note: Specifications subject to change without notice.