Geiger Counter Market Analysis: By Type (Particle Detection, Gamma and X-ray Detection and Neutron Detection); By Applications(Healthcare, Nuclear, Mining, Homeland Security, Military, Research Others With Forecast (2016-2021))

Description: A geiger counter is a device capable of detecting and measuring ionization radiation and is one of the most common radiation detection instruments. This instrument comprises a geiger-mueller tube whose function is to detect the radiation and the electronics that display the results. A geiger counter has two electrodes surrounded by gas, either helium or argon. When radiation enters the tube, the gas gets ionized and via a scaler, a pulse is produced everytime radiation ionizes the gas. Some of the advantages of geiger meters include portability, durability, low cost and the ability to detect all types of radiation. These advantages have a positive impact on the growth rate of the geiger counter market.

However, owing to their lower efficiency level coupled with the fact that the instruments cannot differentiate between the type of radiation being detected, the market growth is hampered. Also, the output pulse of the geiger counter remains the same irrespective of the energy of the incident radiation. Lack of set standardization and calibration is another factor currently inhibiting the growth of this market.

Geiger Counter Market

Geiger counters were initially mainly used for particle detection such as alpha and beta particles and now cover gamma and x-ray detection as well as neutron detection.

The geiger counter market has been classified on the basis of type as:
- Particle detection
- gamma and X-ray detection
- neutron detection
- others

The end window type of the Geiger-Mueller tube is used in the case of particle detection, however, this type will not be able to distinguish between alpha and beta particles. The windowless tube is use in the case of gamma detection while in the case of neutron detection, there is a slight modification. The gas used is typically helium 3 or boron trifluoride and the neutrons are slowed down using a plastic moderator.

In terms of applications, the Geiger Counter market has been segmented across the following:
- Healthcare
- homeland security
- mining
- military
- research
- nuclear
- others

North America, followed by Europe, currently dominate the overall geiger counter market and Asia Pacific is expected to witness the highest growth rate throughout the forecast period considered in this report.

The market has been segmented based on the following geographies:
- North America
- South America
- APAC
- Europe
- Middle East
- Africa

Following are just a few of the companies that are operating in the Geiger Counter market:
- Gamma-Scout
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