

1. Overview



EPHD188031/032 scintillation detector (while drilling) is a high-temperature resistant and anti-vibration scintillation detector. It integrates high temperature and vibration-resistant lithium-glass scintillator, high temperature PMT and voltage divider circuit. The unique design ensures the stable performance of the detector in high temperature vibration environment. This product has the advantages of simple and convenient use, high reliability and not easy to damage. It is mainly used in compensated neutron logging in oil logging environment. The detector is divided into long source distance detector model EPHD188031 and short source distance detector model EPHD188032.

2. Specifications

▶ Detector diameter (mm)	.....	25.0
▶ Detector length (mm)	.....	138.0
▶ Scintillator size (mm)	..... EPHD188031: $\Phi 23.0 \times 64.0$; EPHD188032: $\Phi 12.7 \times 25.4$	
▶ Vibration ¹⁾	20g rms, 50Hz ~ 1000Hz
▶ Shock	.....	500g, 0.5ms
▶ Operating temperature ²⁾ (°C)	.....	-30 ~ +175
▶ Storage temperature ²⁾ (°C)	.....	-30 ~ +70

- Resonance frequency $\geq 1000\text{Hz}$

- Temperature change rate during detector operation and storage $\leq 3^\circ\text{C}/\text{min}$