Gamma Sensor

Information

The Gamma sensor is mainly used to measure the intensity of gamma ray to identify the formation in geosteering for oil and gas development engineering.

Features

- It uses a super-sensitive hermetically-sealed NaI scintillator crystal and durable high temperature photomultiplier tube
- Detector design minimizes vibration and shock
- Self-development and customizable
- High sensitivity and repeatability
- Low power operations maximizes MWD battery life
- Compact and rugged

Application

- MWD System
- Electromagnetic MWD System
- Geosteering System
- Near-bit measurement System

Parameters

Input voltage	20 to 30VDC
Input current	8 to 20mA, 8mA @ 28V
Output signal	+5V negative pulse
Resistance to shock (X or Y axis)	1000g/0.5ms 1/2 sine wave
Resistance to shock (Z axis)	500g/0.5ms 1/2 sine wave
Resistance to vibration (3 axis)	30 to 200Hz 20g
Operating temperature	Up to 175°C / 347°F
Accuracy	±5% (150°C / 302°F) ±10% (175°C / 347°F)

Specification

Model	Name	Diameter	Length	Sensitivity
LHE6141	Gamma Sensor	Φ26.7mm/1.05″	422.5mm/16.63″	1.9CPS/API
LHE6441	Gamma Sensor	Φ34.5mm/1.36″	340mm/13.39″	2.2CPS/API
LHE6741	Gamma Sensor	Φ19mm/0.75″	349mm/13.74″	0.8CPS/API