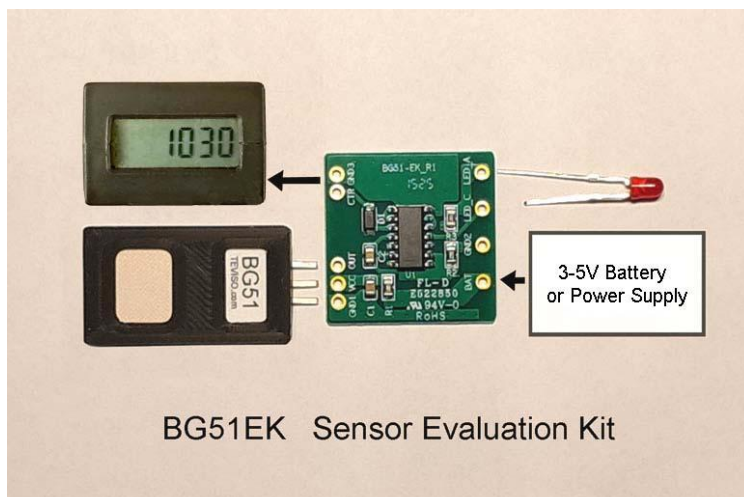


Just Perfect for

- **Development of a Portable Dosimeter**
- **Testing beta/gamma Sensor Integration**
- **Education**



The BG51EK Evaluation Kit serves as the technical foundation for:

- **Developing new dosimeter products.**
- Experimentally analyzing radioactive materials and environments.
- Creating educational demonstrations and coursework for nuclear physics.

This BG51EK Evaluation Kit includes all necessary components for immediate setup and operation of a precise and portable nuclear radiation dosimeter in less than 60 minutes. Simply connect and power the assembled components and soon you will begin to detect natural background radiation. This is your instant verification of functionality. No initial programming or calibration is required.

Dosimeter Technical Data

Beta/gamma sensor: Teviso BG51

300 counts equals 1 μSv radiation dose

6-digit counter indicating up to 3.3 mSv radiation dose

Supply voltage: 4.5 V (3x type AAA batteries)

Power consumption: 20 μA

Battery life: 5 years continuous operation

What's Included

- **One TEVISO BG51 Sensor:** A compact, robust module for detecting beta, gamma, and x-ray radiation.
- **One Dedicated Interface Board:** Conditions the sensor output to standard voltage levels compatible with microprocessors, pulse counters, and LED indicator.
- **One Six-Digit Pulse Counter:** Measuring up to 3.3 mSv cumulative radiation dose.
- **One LED Indicator:** Provides visual pulse detection and system verification.
- **One AAA Battery Holder:** Supplies a stable 4.5V voltage.
- **One PB40 Sensor Tester:** Activity: < 0.05 μCi . Emitted radiation: Beta and gamma