Transverse Hall Probe CYTP98

The CYTP98 is a transverse Hall probe, which can be used to measure DC/AC magnetic field strength of permanent magnet materials, electromagnets, motors, loudspeakers, magnetic sensors/ transducer and other machines and instruments etc.

It needs a power supply voltage of +5VDC to give an output voltage of 2.5VDC±2VAC/DC in different magnetic measuring ranges from 0-50mT to 0-2000mT. The probe has a high linearity of ±0.5%~±1.0% and a measuring accuracy of ±1.0% ~ ±2.0%.

1. Characteristics

- The Hall probe gives an analog voltage output of 2.5VDC±2VAC/DC. It can be integrated in different measuring and controlling systems for magnetic field measurement.
- The Hall probe is powered with a single voltage source +5VDC that can be provided in the most microprocessor controlled systems through USB Cable.
- A low-cost measuring device, which is easy to operate and convenient to handle and store.
- Ideal for quick quality checks and comparative measurements

2. Technical Data

Measuring range: 0-50mT to 0-2000mT (for AC/DC magnetic field, measuring rang can be adjusted according to requirements of customer. Part number is CYTP98-xxxmT, for instance, CYTP98-200mT for measuring range 0-200mT)

Voltage output: 2.5VDC ± 2VAC/DC (calibrated with DC magnet field as Standard)

Power supply: +5VDC (± 10%)
Linearity: ±0.5% ~ ±1.0%
Hysteresis: ±0.25%
Accuracy: ±1.0% ~ ±2.0% (±1.0% for DC Measurement, ±2.0% for AC Measurement)

Operation temperature range: -25°C ~ +70°C
Frequency range: DC, 10Hz ~ 10kHz
Relative humidity: 20% ~ 80%
Dimensions (without cable): 180 x 18 x 20mm (Probe dimensions: 1.5 x 4 x 65mm)
Weight (without cable): 30g