



## Axial Hall Probe CYAP98

The CYAP98 is an axial 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 CYAP98-xxxmT, for instance, CYAP98-200mT 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% for DC Measurement, ±1.0% for AC Measurement
Hysteresis:	±0.25%
Accuracy:	±1.0% for DC Measurement, ±2.0% for AC Measurement
Frequency range:	DC, 10Hz ~ 10kHz
Operation temperature range:	-25°C ~ +70°C
Relative humidity:	20% ~ 80%
Dimensions (without cable):	180 x 18 x 20mm (probe dimensions: Ø7 x 80mm)
Weight (without cable):	30g