

## HTS-K1/2 High accurate single axis MEMS Gyro

HTS-K1/2 series single axis MEMS Gyro is composed of a home-made MEMS gyroscope chip with independent intellectual property rights and their driving pickup circuit, temperature sensor, digital signal processing circuit, etc. It has built-in full temperature compensation algorithm, and outputs high-precision measurement data through high-speed RS422 serial port.



It's with high accuracy, good repeatability, small size, impact resistance, low delay, etc., can be widely used in guidance and attitude control and other fields.

Spec	Unit	HTS-K1/2A	HTS-K1/2B	HTS-K1/2C	HTS-K1/2D
Range	°/s	±400	±400	±400	±400
Bias stability (1s smooth, 1σ, room temperature)	°/h	10	10	5	5
Bias error (full temperature range)	°/h	20	20	10	10
Random drift	°/√h	0.2	0.2	0.2	0.2
Bias repeatability	°/h	20	20	20	20
Bias acceleration sensitivity	°/h /g	1	1	1	1
Resolution	°/h	2	2	2	2
Scale factor non-linearity	PPM	100	100	100	100
Scale factor repeatability	PPM	100	100	100	100
Cross coupling	%	0.1	0.1	0.1	0.1
Band Width	Hz	200	200	200	200
Voltage	V	5	5	5	5
Consumption	W	0.4	0.4	0.4	0.4

Spec	Unit	HTS-K1/2A	HTS-K1/2B	HTS-K1/2C	HTS-K1/2D
Working temperature	°C	-40~65	-55~85	-40~65	-55~85
Storage temperature	°C	-55~105	-60~125	-55~105	-60~125
Vibration	— —	10~2000Hz,6.06g	10~2000Hz,6.06g	10~2000Hz,6.06g	10~2000Hz,6.06g
Shock	— —	5000g, 0.1ms	5000g, 0.1ms	5000g, 0.1ms	5000g, 0.1ms
MTBF	h	20000	20000	20000	20000
Continuous operating time	h	120	120	120	120
Dimension	mm	22*20*10.2	22*20*10.2	22*20*10.2	22*20*10.2
Weight	g	10	10	10	10