

HTS-K3/1 High accurate three-axis MEMS Gyro

HTS-E3/1 series high-precision three-axis MEMS gyro products are composed of domestic MEMS gyro chip with independent intellectual property rights and its driving pickup circuit, temperature sensor, digital signal processing circuit and control software, built-in all-temperature compensation, installation error compensation and other algorithms, through high-speed RS422 serial port output high-precision measurement data. The products are divided into industrial grade and military grade (working temperature $-55^{\circ}\text{C}\sim+85^{\circ}\text{C}$).



Spec	Unit	HTS-E3/1A	HTS-E3/1B	HTS-E3/1C	HTS-E3/1D
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	10	10
Bias acceleration sensitivity	°/h / g	1	1	1	1
Resolution	°/h	2	2	2	2
Scale factor non-linearity	PPM	100	100	15	15
Scale factor repeatability	PPM	100	100	50	50
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	1.5	1.5	1.5	1.5
Working temperature	°C	-40~65	-55~85	-40~65	-55~85

Spec	Unit	HTS-E3/1A	HTS-E3/1B	HTS-E3/1C	HTS-E3/1D
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	44.8*38.6*21.5	44.8*38.6*21.5	44.8*38.6*21.5	44.8*38.6*21.5
Weight	g	52	52	52	52