



**QMS & CERTS:**

AS9100C &  
ISO9001:2008  
FAA#1LKR990Y  
EASA 145.6103  
ASA-100

Small Business  
Cage Code 0CUF4  
SAM Registered  
JCP Certified

LKD Aerospace is a Global Distributor,  
Manufacturer & MRO of Aerospace Components

# Honeywell Inertial Measurement Unit (IMU)

**MRO Repairs:**

EGT Harnesses  
Thermocouples  
Ignition Leads

**Products:**

Honeywell: Hi-Rel &  
Airline Thermal Switches  
Q-Flex Accelerometers  
IMU's  
PMA's  
OMAT Consumables  
Circuit Breaker I.D.  
Collars & Lockout Rings  
Triumph Interiors  
Filter Kits  
Nordam Transparencies  
Inertial Sensors & Systems  
INS/GPS  
Gaskets

**Available On:**

Aerexchange | Locatory  
Spec2000 | OneAero  
ILS | OneAeroMRO  
Partsbase | The145.com  
StockMarket

Honeywell's Inertial Measurement Units (IMU) set the standard for measuring IMU performance world-wide today. They are renowned for performance over challenging environments and have been deployed in high volumes for U.S. and international military and commercial applications

LKD Aerospace distributes the navigation grade HG9900 Ring Laser Gyro (RLG), the tactical grade HG1700 (RLG), HG1900 (MEMS), HG1930 (MEMS), and the new HG4930 (MEMS with no export license required) IMU's.

- All Inertial Sensors are Designed & Manufactured by Honeywell
- Proven Performance in a Wide Range of Applications
- RS-422 Serial Interface
- Wide Range of Factory Configurable Protocols & Mounting Options
- Various Isolator/Mouting Options
- High G-Range Availability
- Various Performance Grades Available



## Performance Characteristics

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HG1700 Inertial Measurement Unit (IMU)					
MODEL	RS-422 INTERFACE PROTOCOL	ISOLATOR	PERFORMANCE		
			GYROSCOPE		ACCELEROMETER
			*Bias °/hr (1σ)	ARW (max)	*Bias mg(1σ)
HG1700AG58	SDLC	Round	1	0.125	1
HG1700AG63		Square	1	0.125	1
HG1700AG71	Gated Clock	Square	1	0.125	1
HG1700AG37	Asynchronous	Round	1	0.125	1
HG1700AG67		Square	1	0.125	1
HG1700AG59	SDLC	Round	2	0.200	1
HG1700AG64		Square	2	0.200	1
HG1700AG72	Gated Clock	Square	2	0.200	1
HG1700AG60	SDLC	Round	3	0.300	2
HG1700AG65		Square	3	0.300	2
HG1700AG61	SDLC	Round	5	0.500	3
HG1700AG66		Square	5	0.500	3
HG1700AG74	Gated Clock	Square	5	0.500	3
HG1700AG68	Asynchronous	Round	5	0.500	3

HG1900 Inertial Measurement Unit (IMU)					
MODEL	RS-422 INTERFACE PROTOCOL	ISOLATOR	PERFORMANCE		
			GYROSCOPE		ACCELEROMETER
			*Bias °/hr (1σ)	ARW (max)	*Bias mg(1σ)
HG1900CA50	SDLC	Internal	10	1	1
HG1900BA50	SDLC	Internal	15	1.5	1
HG1900AA50	SDLC	Internal	30	1.5	2

HG1930 Inertial Measurement Unit (IMU)					
MODEL	RS-422 INTERFACE PROTOCOL	ISOLATOR	PERFORMANCE		
			GYROSCOPE		ACCELEROMETER
			*Bias °/hr (1σ)	ARW (max)	*Bias mg(1σ)
HG1930CA50	SDLC	Internal	20	1	5
HG1930BA50	SDLC	Internal	40	1.5	10
HG1930AA50	SDLC	Internal	60	1.5	10

HG4930 Inertial Measurement Unit (IMU)					
MODEL	RS-422 INTERFACE PROTOCOL	ISOLATOR	PERFORMANCE		
			GYROSCOPE		ACCELEROMETER
			*Bias °/hr (1σ)	ARW (max)	*Bias mg(1σ)
HG4930CA51	SDLC	Internal	20	0.125	5
HG4930BA51	SDLC	Internal	40	0.125	10
HG4930AA51	SDLC	Internal	60	0.175	10

HG9900 Inertial Measurement Unit (IMU)					
MODEL	RS-422 INTERFACE PROTOCOL	ISOLATOR	PERFORMANCE		
			GYROSCOPE		ACCELEROMETER
			*Bias °/hr (1σ)	ARW (max)	*Bias mg(1σ)
HG9900C1D-5030	SDLC	Internal	0.003	0.002	25

\* Turn-on to turn-on repeatability from calibration residuals (-54 °C to +85 °C)

† In-run stability measured per IEEE STD 647-1995.