



**QMS & CERTS:**

AS9100C &  
ISO9001:2008  
FAA#1LKR990Y  
EASA 145.6103

Small Business  
Cage Code 0CUF4  
SAM Registered  
JCP Certified

**Honeywell P/Ns**

979-0273-001/002/003 (160°C)  
979-0275-001/002/003 (185°C)  
979-0281-001/011/021 (Mini Q) ((185°C)  
979-0286-001 (Mini Q) (200°C)

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

# Honeywell Energy Q-Flex Accelerometers

**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 Energy Q-Flex Accelerometers consist of the QAT 160, QAT 185 and the Mini Q.

The sensors are designed and built to tolerate demanding Measurement -While-Drilling (MWD) and wireline environments while providing precision accuracy. Two primary models are available with different temperature ranges, allowing for flexibility in selecting the appropriate acceleration sensor. For a small diameter application we offer the mini Q.

**Key Features:**

- High temperature capability • Environmentally rugged
- Analog output • Square or round mounting flange options
- Field-adjustable range • Internal temperature sensor for thermal compensation • Low power electronics • Built-in test



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Performance Characteristics		
Performance	QAT	Mini Q
Input Range	±20 g	±20 g
Bias	<20 mg	<15 mg
Residual Modeling Error	<450 µg	<600 µg
Scale Factor	2.75 mA/g ± 1.8%	1.3 mA/g
Residual Modeling Error	<450 ppm	<400 ppm
Axis Misalignment	<3 mrad	<6.5 mrad
One-year Repeatability	<400 µrad	
Vibration Rectification (50-500 Hz)	<±100 µg/g <sup>2</sup>	
<b>Threshold and Resolution</b>	<5 µg	1 µg
Bandwidth	<200 Hz	
Environmental		
Vibration, Operating & Survival		
Sine Vibration	30g peak, 50 to 800Hz	
Random Vibration	20 grms	30 grms
Shock		
Operating	1000 g	1000 g
Survival (-40 to 70°)	2000 g	2000 g
Electrical		
Input Voltage	± 12.5 to ± 15.5 VDC	± 12 to ± 18 VDC
Quiescent Current	6 mA per supply	
Quiescent Power	180m Watts	
Physical		
Weight	55 grams	<25 grams
Size	1.0 in. dia. x 0.73 in. high	0.79 in. dia. x 0.57 in. high

Performance by Model	QAT 160	QAT 185	Mini Q
RSS Bias & Scale Factor			
- One-year Repeatability	1 mg	1.5 mg	1.8 mg
Operating Temperatures	0 to 160°C	-40 to 185°C	0 to 150°C 0 to 185°C 0 to 200°C
Survival Temperatures	175°C intermittent	200°C intermittent	-40°C to 215°C