



QMS & CERTS:

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

Woman-Owned
Small Business
Cage Code 0CUF4
CCR 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
Dash-8 Butt Plates
Thousands of Other Parts

Available On:

Aerexchange
Spec2000
ILS
Partsbase
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

Additional product specifications, outline drawings, and block diagrams, and test data are available on request.

Performance		
Input Range	±20 g	
Bias	<20 mg	
Residual Modeling error	<450 µg	
Scale Factor	2.75 mA/g ± 1.8%	
Residual Modeling error	<450 ppm	
Axis misalignment	<20 mrad	
One-year repeatability	<400 µrad	
Vibration rectification (50-500 Hz)	<100 µg/g ²	
Threshold and Resolution	<5 µg	
Bandwidth	<200 Hz	
Environmental		
Vibration, operating & survival		
Sine vibration	30g peak, 50 to 800Hz	
Random vibration	20 grms	
Shock		
Operating	1000 g	
Survival (-40 to 70°)	2000 g	
Electrical		
Input voltage	± 12.5 to ± 15.5 VDC	
Quiescent current	6 mA per supply	
Quiescent power	180m Watts	
Physical		
Weight	55 grams	
Size	1.0 in. dia. X 0.73 in. high	
Core Materials	Stainless Steel	
Performance by Model		
	QAT 160	QAT 185
RSS Bias & Scale Factor	1 mg	1.5 mg
- One-year repeatability		
Operating temperature	-40 to 160°C	-40 to 185°C
Survival temperature	175°C intermittent	200°C intermittent