RELIABLE, HIGH PERFORMANCE PRODUCTS — EXCEPTIONAL SERVICE

FEATURING: Precision accelerometers and inclinometers

All Jewell force-balanced (servo) precision accelerometers and inclinometers are fully self-contained, and extremely sensitive. They connect to a DC power source and a readout or control device for a complete operating system. Precision accelerometers respond to change in velocity as small as 1µg. Hysteresis is less than 0.0005% of full range output and vibration rectification is less than 50µG/G2. Our inclinometers are rugged transducers designed to provide horizontal angle or vertical deviation measurements with virtually infinite resolution - responding to changes of slope as small as 0.1 second of arc. Review the products in this guide for more information.

Custom Application-Specific Solutions

Jewell Instruments provides both standard and custom solutions for a diverse group of industries, such as aerospace, medical, industrial, telecommunications, and rail markets. We manufacture our components completely in-house and work directly with our clients. maintaining control over the entire development processes. Our legacy of experience and success, and the expertise of our engineering team, mean customers benefit from extensive resources at their disposal.

Connecting Experience, Quality & Expertise

For over 60 years, Jewell Instruments has provided commercial and industrial sensors and controls, meters and avionics, and industrial test equipment solutions to a range of global markets. Our ISO 9001:2008 certification ensures that our customers receive products and systems with the dependability and shorten lead-times and bring reliability that their applications demand. Jewell Instruments' experienced engineering team works with customers to produce high quality, reliable products that meet or exceed their requirements.

Exceptional **Customer Service**

We specialize in reliability, value and responsiveness. Cooperation and joint planning between our engineering groups and our clients drive our customer care experience. We work as an extension of our customers' engineering and manufacturing teams to solve problems, improve applications, more value to their products and services. Superb customer support is the cornerstone of our many successful, long-term customer relationships.

Jewell Facilities Jewell offers two, fully modernized

manufacturing facilities, one in Manchester, New Hampshire and one in Barbados, West Indies.



Manchester Facility



Barbados Facility

Other Product Groups Available:



Force-Balanced Precision Accelerometer Selector Guide



Force-Balanced Precision **Inclinometer Selector** Guide



Electrolytic Tilt Sensors and Accessories Selector Guide

Jewell Instruments is a world leader in the manufacture and distribution of panel meters, avionics components, inertial sensors, and precision solenoids. From sales and design, manufacturing and testing, and delivery and support, Jewell Instruments offers complete customer care and engineering expertise. We also offer two, fully modernized manufacturing facilities, one in Manchester, New Hampshire and one in Barbados, West Indies to handle the most stringent manufacturing requirements with a cost-competitive advantage.

Distributed By:



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www.jewellinstruments.com

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Rail Transportation Selector Guide









Single Axis Inclinometers

Digital Inclinometers

DXI 100/200 Series

Single Axis Accelerometers

Digital **Accelerometers**

DXA 100/200 Digital Series

LSO Series

Extreme High Resolution • Vibration >35 grams

- · Responds to changes in Slope 0.000006"/ft
- High Accuracy Closed-loop (Servo)

±1.0 ±3.0 ±14.5 ±30.0 ±90.0

0.05 0.05 0.02 0.02 0.05

0.10 0.15 0.25 0.50 1.00

0.10 0.04 0.02 0.02 0.02

.001

286.5 95.5 20.0 10.0

0.5 2.0 15.0 20.0

1.0 1.0 1.0 1.0

±12 to ±18

±15

100

0.0020

-20°C to +70°C

-40°C to +70°C

20 g

1500 g, 0.5 msec,

1/2 sine

MIL-STD-202,

Method 112

13.0 oz.

1.60" W x 2.94" L x 1.70" H

Yes

±5.0

60

.0005

15.0 20.0

40.0

1.0

1,500g Shock Capability

Applications

Input Range (°):

Electrical

Number of Axis

Input Voltage (Vdc)

Noise (Vms, Max.)

Vibration

Mechanical

Dimensions

Custom Ability

Shock

Environmental

Input Current (mA. Nom.)

Output Impedance (Ohms, Nom.)

Operating Temperature Range

Survival Temperature Range

Features & Benefits

Performance Specs

Full Range Output (FRO V± 1.0%1)

Scale Factor Temp Sens (PPM/°C, Max.)

0° Output Temp Sensitivity (V/°C, Max.):

Resolution and Threshold (µ Rad Max.):

Non Linearity (%FRO2, Max.):

Natural Frequency (Hz, Nom.3)

Input-Axis Misalignment (° Max.):

Output @ 0° Tilt (Bias) (V, Max.):

Bandwidth (-3db) (Hz, Nom.):

Scale Factor (V/g, Nom.):

- Railcar Monitoring and Testing Track Construction
- · Rail Lifter and Grinder

±5.0 ±5.0 ±5.0

400 300 100

0.5 2.0

.005 .003

- Train Automated Controls
- Rail Leveling and Grinding

- ±8° Input Full Range
- 3 Full Range Output Models

LSOC Series

- Hysteresis 0.002 V Max Noise 0.001 Vrms Max
- Connector Termination AREMA/CENELEC Certified
- Track Monitoring & Testing Railcar Tilt Measurement
- Train Automated Controls • Rail Cross Slope Testing

±5.0

Rail Lifter & Grinder

±5.0 ±5.0

±8.0 ±8.0 ±8.0

0.02 0.02 0.02

35.93 17.96 10.78

180 180 180

Low Pass Filter (1 to 30 Hz)

Low Pass Filter (1 to 30 Hz)

0.25 0.25 0.25

0.100 0.040 0.020

.0100 .0100 .0100

10.0 10.0 10.0

±9 to ±18

±40

10

0.0010

-40°C to +80°C

-60°C to +90°C

20 g

1500 g, 0.5 msec,

1/2 sine

IP 65

13.0 oz.

1.60" W x 2.94" L x 1.70" H

No

±1° to ±90° Input Full Range Micro Radian Resolution

LCF-100 Series

- Available Internal Temperature Sensor
- High level ± 5Vdc Output

±14.5

±5.0

0.02

20.0

100

30.0

30.0

0.50

0.100

.001

1.0

±12 to ±18

±15

100

0.0020

-40°C to +80°C

-60°C to +90°C

1000 g, 0.5 msec,

1/2 sine

Ероху

4.0 oz.

1.50" W x 3.10" L x 1.50" H

20 g

- Railcar Acceleration Control **Automatic Train Positioning**
- Railcar Monitoring Train Banking and Braking
- Track Monitoring & Testing Tunnel Tilt Measurement
 - Portable 3-axis Test Svs · Laser Height Measurement

±14.5

±5.0

0.02

20.0

100

30.0

30.0

0.25

0.040

.0010

3.0

±12 to ±18

±15

100

0.002

-40°C to +80°C

-60°C to +90°C

20 g

1000 g, 1 msec,

1/2 sine

Ероху

4 oz.

1.50" W x 3.10" L x 1.50" H

Yes

Direct Bogie Mount

Filtering Available 5-50 Hz

Output Temp Sens >.0005

-40°to +80°C Temp Rating

High level ± 5Vdc Output

Rail Cross Slope Testing

LCF-300 Series

- ± 1° to ± 60° Full Range • Single or Dual Axis Available
- High Precision and Performance
- Industry Standard RS485 and RS422 outputs

± 1.0 ± 3.0 ±14.5 ±30.0 ±60.0

 $\pm 0.25 \pm 0.50 \pm .87 \pm 1.00 \pm 2.00$

0.02 0.015 0.02 0.02 0.03

0.01 0.01 0.01 0.01 0.01

30

0.05

.0001 .0001 .0001 .0001 .0001

1 or 2

±10 to ±30

DXI-100 ±70 mA/DXI-200 ±100 mA

0.005

-40°C to +70°C

-40°C to +70°C

20 g

1500 g, 1msec,

1/2 sine

MIL-STD-202.

Method 112

DXA-100 8 oz./DXA-200 10 oz.

1.62" W x 3.609" L x 1.83" H

Yes

.0005 .0005 .0005 .0005

30

30

0.05

30

- Resolution of 0.001°
- AREMA/CENELEC Certified
- Railcar Acceleration Control
- Automatic Train Positioning Control Railcar Monitoring
- Train Banking and Braking

30

30

.0005

LCA-165 Series

Filtering Available

High Level ± Vdc Output

AREMA/CENELEC Certified

Railcar Accel/Decel Control

Train Performance Test

Railcar Vibration Testing

±1.0

±5.0

0.05

5.0

200

0.01

50

75

±0.09

10.0

±12 to ±18

1/2 sine

MIL-STD-202,

Method 112

Active Damping

±0.5

±5.0

0.05

10.0

180

0.01

100

60

±1.0

100.0

Railcar Monitoring

100g Shock Capability

Exeptional Bias



LCA-263 Series

- ±0.5g & ±1.0g Full Range ±1.0g to ±10.0g Full Range Taut Band Torsional
 - Suspension Extremely Ruggedized Package
 - Filtering Available 1,000g Shock Capability

 - Railcar Accel/Decel Control Train Performance Testing
 - Double Integration Positioning

10

- Railcar Monitoring
- Automated Train Controls

± 1.0 ± 2.0 ± 5.0 ± 10.0

 $\pm 5.0 \pm 5.0 \pm 5.0 \pm 5.0$

0.05 0.05 0.05 0.10

5.00 2.50 1.00 0.50

180 180 180 180

0.010 0.010 0.010 0.010

100 100 100 100

±0.25 ±0.25 ±0.25

10

±18 to ±32

10

10

10.0 10.0 10.0

LCF-501 Series

- Filtering Available **Exeptional Bias**
- & Scale Factor High Level ± Vdc Output
- 1,000g Shock Capability AREMA/CENELEC Certified
- Railcar Accel/Decel Control
- Railcar Harshness (NVH)
- Train Performance Testing

± 1.0

± 5.0

0.02

5.00

0.050

75

75

± 1.0

1.0

±15 to ±20

100

- Railcar Monitoring Railcar Vibration Testing
 - Tilt Train Controls

LSM Series

• ±0.5g to ±20.0g Full Range

Satellite Application Reliability

Train Banking and Braking

Train Performance Testing

Position Double Integration

Railcar Monitoring

w/0.6 Damping

• Filtering up to 200 Hz Bandwidth

• Better Than 20 µg Res @ 10g Full Scale

• -55°C to +95°C Operating Temp Range

 ± 0.5 ± 1.0 ± 2.0 ± 5.0 ± 10.0 ± 20.0

 $\pm 5.0 \pm 5.0 \pm 5.0 \pm 5.0 \pm 5.0$

0.05 0.05 0.05 0.10 0.50 0.25

10.00 5.00 2.50 1.00 0.50 0.25

200 200 200 200 200 200

0.050 0.010 0.010 0.010 0.020 0.050

50 50 50 100 100 100

70 100 140 100 100 160

± 1.0 ± 1.0 ± 1.0 ± 1.0 ± 1.0

10.0 10.0 10.0 10.0 10.0 10.0

± 12 ± 18

1/2 sine

MIL-STD-202,

Method 112

LSB Series



- ± 0.25g to ± 2.0g Full Range · Single or Dual Axis Available
- High Precision and Performance
- Industry Standard RS485 & RS422 outputs
- Resolution of 0.001°
- AREMA/CENELEC Certified
- Railcar Acceleration Control

100

90

0.5

0.5

 Automatic Train Positioning Control Railcar Monitoring

 $\pm 0.25 \pm 0.50 \pm 0.87 \pm 1.00 \pm 2.00$

0.02 0.02 0.03 0.05 Test Case

100

90

0.5

±8

1 or 2

 $\pm 10 \text{ to } \pm 30$

1/2 sine

MIL-STD-202,

Method 112

.0001 .0001 .0001 .0001

100

90

0.5

±8

90

0.5

.0001

- Train Banking and Braking

Features & Benefits

Applications

Performance Specs

Full Range Output (FRO V± 1.0%)

$\pm 0.25 \pm 0.50 \pm 0.87 \pm 1.00 \pm 2.00$ Input Range (g)

Non Linearity (%FRO, Max.)
Scale Factor (V/g, Nom.)
Scale Factor Temp Sens (PPM/°C, Ma
Bias (g, Max.)
Bias Temp. Sensitivity (FRO/°C, Max.)
Bandwidth (-3dh) (Hz Nom)

Transverse Axis Misalignment (°, Max.)

Resolution and Threshold (g, Max.)

Electrical

Number of Axis

Input Voltage (Vdc)

Noise (Vms, Max.)

Input Current (mA, Nom.)

Output Impedance (Ohms, Nom.)

±15	±25	±15	±10	Single Axis ±70/Dual Axis ±100
100	100	100	10.0K 5.0K 2.5K 5.0K 2.5K 2.5K	-
0.0020	0.0020	0.005	5.000	0.005
-18°C to +71°C	-55°C to +85°C	-40°C to +80°C	-55°C to +95°C	-40°C to +70°C
-40°C to +71°C	-60°C to +90°C	-60°C to +90°C	-65°C to +105°C	-40°C to +70°C
20 g	20 g	20 g	20 g	20 g
1500 g, 0.5 msec,	100 g, 11 msec,	1000 g, 0.011 msec,	100 g, 11 msec,	1500 g, 1msec,

Operating Temperature Range Survival Temperature Range

Environmental

	Shock							
	Seal							
Mechanical								
	Weight							
	Dimensions							

DXI-100 8 oz./DXI-200 10 oz.	Weight
1.63" W x 3.63" L x 1.87" H	Dimensions
Yes	Custom Ability

Vibration

13.0 oz. 4.4 oz. 1.60" W x 2.94" L x 1.70" H 1.38" W x 3.10" L x 2.125" H 2.55" Over Connector

1/2 sine

IP65

- 1.38" W x 3.46" L x 1.65" H 2.15" Over Connector

1/2 sine

MIL-STD-202,

Method 112

- 8.0 oz.

- LSB 5.0 oz., LSM 2.0 oz.
 - LSB -1.1" W x 2.6" L x 1.225" H LSM -1.05" W x 1.50" L x 1.235" H LSM - Yes, LSB - No

RELIABLE, HIGH PERFORMANCE PRODUCTS — EXCEPTIONAL SERVICE

FEATURING: Precision Linear & Angular Accelerometers

All Jewell force-balanced (servo) precision accelerometers are fully self-contained. They connect to a DC power source and a readout or control device for a complete operating system. The output is a high-level DC signal proportional to acceleration and tilt angle sine from as little as ± 0.010 g to ± 20 g full range. Jewell precision accelerometers respond to change in velocity as small as 1µg. Hysteresis is less than 0.0005% of full range output and vibration rectification is less than $50\mu\text{G}/\text{G2}$ are available. Review the products in this guide for more information.

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Jewell Facilities

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Manchester Facility



Barbados Facility

Other Product Groups Available:



Rail Transportation Selector Guide



Force-Balanced Precision Inclinometer Selector Guide



Electrolytic Tilt Sensors and Accessories Selector Guide

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Angular Accelerometers ASB Series ASMP Series ASXC Series Bandwidths to 200 Hz Bandwidths to 200 Hz Standard Ranges 2 to 100 rad/sec2 • 1.05" Cube Housing Size IP68 Seals Resolution Better than 0.001 rad/sec2 Available 28V Aircraft Input • ±15 Standard Input Voltage Very High Output to Size Ratio • Connector or Pin Config Aerospace Quality & • Self-test for Greater than 95% Fail Detect Aerospace Quality and Reliability • -30°C to 70°C Operating Temperature Antenna Stabilization Motor Torque Measure-· Aircraft Stability Augmentation Motor Torque Measurement & Control Racecar Performance Testing ment & Control Automotive Angular Camera Angular Motion Stabilization Vehicle Ride Analysis Acceleration Testing Autopilot System Input Rotating System Performance Testing Autopilot System Input Autopilot System Input Weapons Control Targeting ±200 ±500 ±1000 ±200 ±500 ±1000 ±50 ±100 ±10 ±20 ±5.0 ±5.0 ±5.0 ±5.0 ±5.0 ±5.0 ±5.0 ±5.0 ±5.0 ±5.0 ±5.0 0.5 0.2 0.1 0.5 0.2 0.1 1.0 1.0 1.0 1.0 1.0 0.025 0.010 0.005 5.000 1.000 0.500 0.200 0.100 0.025 0.010 0.005 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 ±1.0 ±4.0 ±4.0 ±1.0 ±4.0 ±4.0 ±.005 ±.020 ±.030 ±.080 ±0.40 ±0.40 ±0.40 ±0.001 ±0.001 ±0.001 ±0.001 ±0.05 ±0.05 ±0.10 70 100 100 120 100 150 200 170 170 120 70 0.6 0.6 0.6 0.6 0.9 0.9 0.9 0.9 0.6 0.6 0.9 ±1.0 ±1.0 ±1.0 ±1.0 ±1.0 ±1.0 ±0.025 ±0.025 ±0.025 ±0.025 0.005 0.005 0.005 0.004 0.010 0.020 0.001 0.001 0.002 0.005 0.010 ±12 to ±18 ±15 to ±10 ±15 to ±10 ±10 ±10 ±25 4.0K 4.0K 100.0 4.0K 5.0K 5.00 5.00 5.00 0.005 0.005 0.005 0.030 0.030 0.050 0.050 0.050 -55°C to +95°C -30°C to +70°C -55°C to +95°C -40°C to +70°C -65°C to +105°C -65°C to +105°C 100g, 11msec, 1/2 sine 100 g 100g, 11msec, 1/2 sine MIL-STD-202, Method 112 MIL-STD-202, Method 112 MIL-STD-202, Method 112 3.0 oz. 2.0 oz. 8.5 oz. 1.10" W x 2.60" L x 1.235" H 1.05" W x 1.50" L x 1.235" H 1.40" Dia x 2.97" L x 2.50" Flange W 1.657" Over Connector 1.39" Over Terminal Pins 3.44" Over Connector

Features & Benefits

Performance Specs

Input Range (Ang: rads/sec2, Lin: g)

Scale Factor (Ang: V/rad/sec², Lin: V/g, Nom.)

Scale Factor Temp Sens (% reading, PPM/°C, Max.

Bias (Ang: rad/sec2, Lin: g, Dig: g, Max.)

Transverse Axis Misalignment (°, Max.)

Resolution and Threshold (rad/sec², µg, Max.)

Bias Temp Sens (FRO, PPM/°C, mg, Max.)

Full Range Output (FRO V± 1.0%)

Non Linearity (%FRO' Max.)

Bandwidth (-3db) (Hz, Nom.)

Damping Ratio (Nom)

Electrical Number of Axis

Input Voltage (Vdc)

Noise (Vms, Max.)

Mechanical

Vibration

Shock

Weight

Dimensions

Custom Ability

Environmental

Input Current (mA, Nom.)

Output Impedence (Ohms, Nom.)

Operating Temperature Range

Survival Temperature Range

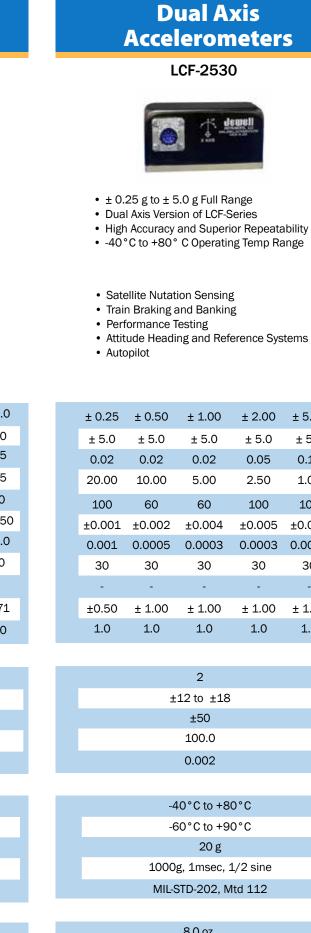
Applications

Reliability

10.0K

LCF-200 Series LSM Series LSB Series LCA-100 Series ±0.5g to 20g Full Range Built-in Output Filter • ±0.5g to ±5.0g Full Range • Filtering 5 to 100 Hz Bandwidth D0-160 Quality Versions • Filtering to 200 Hz Bandwidth w/0.6 Damping Available 28V Aircraft Input Exceptional Bias and Satellite Application Reliability Connector or Pin Config Scale Factor Better than 20µg Resolution at 10g Full Scale 0.20% 10-year Scale Factor • High Level ±V dc Output • -55°C to +95°C Operating Temperature Range • 1,500g Shock Capability Satellite Nutation Sensing Train Braking Banking Aircraft Flight Controls Geophysical Testing Missile Orientation Aircraft Fatigue Monitoring Railcar Accel/Decel Control Radar Leveling · Autopilot Systems · Aircraft Autopilot System Input Ocean Buoy Accel Sensing Fire Control AHRS System Input Train Performance Testing Aircraft Wind-shear Detect Aircraft Stability Control Attitude Heading and Performance Testing • Double Integrated Railcar Pos Aircraft Flight Testing Reference System Train Performance Testing Vehicle Roadway Profiling ±0.5 ±1.0 ±2.0 ±5.0 ±0.5 ±1.0 ±2.0 ±5.0 ±0.5 ±5.0 ±10.0 ±20.0 ±1.0 ±2.0 ±5.0 ±5.0 ±5.0 ±5.0 ±5.0 ±5.0 ±5.0 ±5.0 ±5.0 ±5.0 ±5.0 ±5.0 ±5.0 0.05 0.05 0.05 0.02 0.05 0.05 0.05 0.02 0.05 0.10 0.05 0.05 0.50 0.25 5.0 2.5 1.0 10.0 5.0 2.5 1.0 5.0 2.5 1.0 0.5 0.25 180 180 180 100 100 100 200 200 200 200 200 200 ±0.01 ±0.01 ±0.01 ±0.005 ±0.005 ±0.005 ±0.050 ±0.010 ±0.010 ±0.020 ±0.050 100.0 100.0 100.0 100.0 50.0 50.0 50.0 50.0 50.0 100.0 100.0 100.0 60 60 30 30 30 100 140 100 140 160 0.5 to 0.9 - --±0.71 ±0.71 ±0.71 ±0.71 ±0.71 ±0.71 ±0.71 ±0.71 ±0.71 ±0.71 ±0.71 ±0.71 ±0.71 ±0.71 10.0 10.0 10.0 10.0 1.0 1.0 1.0 10.0 10.0 10.0 10.0 20.0 50.0 ±12 to ±18 ±12 to ±18 ±12 to ±18 ±15 ±10 100.0 10.0K 5.0K 2.5K 5.0K 2.5K 2.5K sensori & trasduttori 0.005 0.001 5.000 -55°C to +85°C -40°C to +80°C -55°C to +95°C -60°C to +90°C -40°C to +90°C -65°C to +105°C 20 g 20 g 0 g 100 g 1000g, 1 msec, 1/2 sine 100 g, 0.011 sec, ½ sine MIL-STD-202. Method 112 MIL-STD-202. Method 112 MIL-STD-202, Method 112 5.0 oz. 4.0 oz. LSB - 5.0 oz., LSB - 2.0 oz. 1.38" W x 3.10" L x 1.50" H 1.38" W x 3.10" L x 1.50" H 1.10" W x 2.60" L x 1.225" H (1.857" over connector) 1.05" W x 1.50" L (1.05" body) x 1.235" H (1.39" over pins) LSM - Yes, LSB - No

Linear Accelerometers



L	CF-3500		DXA-100/200 Series								
Filtering Exception High Leve 1,500 Sh Tri-Axis Geophys Railcar A & Decele Ocean Bo Aircraft S	±5.0g Full F 5 to 100 Hz nal Bias & S el ± Vdc Out nock Capabi ical Testing cceleration eration Cont uoy Acel Ser Stability Con Roadway Pro	Bandwidth cale Factor put lity rol nsing trol	 Digital Output Resolution 8 µg Mechanical Shock 1500 g 1msec ½ sine Industry Standard RS485 & RS422 Output High Precision and Performance Low Noise Radar/Antenna Control Structural Monitoring Linear Acceleration/Deceleration Measuring Automatic Train Position Control Seismic Monitoring 								
	-	Applications	1	ack Levelin	_						
±0.5	±2.0	±5.0	± 0.25	± 0.50	±.87	± 1.00	± 2.00				
±5.0	±5.0	±5.0	± 0.25		±.87	± 1.00	± 2.00				
0.05	0.05	0.05	0.02	0.02	0.03	0.05	Test Case				
10	2.50	1.00	0.05	0.05	0.05	0.05	0.05				
100	100	100	100	100	100	100	100				
±0.005	±0.005	± .005	±.0008		±.0008	±.0008	±.0008				
100.0	100.0	100.0	90.0	90.0	90.0	90.0	90.0				
30	30	30	30	30	30	30	30				
30.0	30.0	30.0	-	-	-	-	-				
±1.0	±1.0	±1.0	±0.15	±0.15	±0.15	±0.15	±0.15				
10.0	10.0	10.0	8.0	8.0	8.0	8.0	8.0				
	3		1 or 2								
	±12 to ±18		+10 to +30								
	±15		DXA-100 ±80 mA/DXA-200 ±70 mA								
	100.0										
	0.002		0.005								
-4	10°C to +80	ı°C	-40°C to +70°C								
	60°C to +90		-40°C to +75°C								
	20 g		20 g								
1000	g, 1msec, 1	/2 sine	1500g, 1msec, 1/2 sine								
MIL	STD-202, Mt	d 112		MIL-ST	D-202, Mt	d 112					
	,				,						
	16 oz.			DXA-100	8 oz./DXA	N-200 10 d)Z.				
3.25" L	. x 2.75" W x	2.75" H	3.609" L x 1.62" W x 1.83" H								
	Yes		Yes								

Digital

Accelerometers



Triple Axis

Accelerometers

 Satellite Nutation Sensing Train Braking and Banking Performance Testing Attitude Heading and Reference Systems Autopilot 				 Geophysical Testing Railcar Acceleration Deceleration Control Ocean Buoy Acel Sensing Aircraft Stability Control Vehicle Roadway Profiling Tri-Axis Acceleration Applications 				 Radar/Antenna Control Structural Monitoring Linear Acceleration/Deceleration Measuring Automatic Train Position Control Seismic Monitoring Track Leveling 						
± 0.25	± 0.50	± 1.00	± 2.00	± 5.00		±0.5	±2.0	±5.0		± 0.25	± 0.50	±.87	± 1.00	± 2.0
± 5.0	± 5.0	± 5.0	± 5.0	± 5.0		±5.0	±5.0	±5.0	ľ	± 0.25	± 0.50	±.87	± 1.00	± 2.0
0.02	0.02	0.02	0.05	0.10		0.05	0.05	0.05		0.02	0.02	0.03	0.05	Test C
20.00	10.00	5.00	2.50	1.00		10	2.50	1.00		0.05	0.05	0.05	0.05	0.0
100	60	60	100	100		100	100	100		100	100	100	100	100
±0.001	±0.002	±0.004	±0.005	±0.005		±0.005	±0.005	± .005		±.0008	±.0008	±.0008	±.0008	±.00
0.001	0.0005	0.0003	0.0003	0.0003		100.0	100.0	100.0		90.0	90.0	90.0	90.0	90.
30	30	30	30	30		30	30	30		30	30	30	30	30
-	-	-	-	-		30.0	30.0	30.0		-	-	-	-	-
±0.50	± 1.00	± 1.00	± 1.00	± 1.00	Τ	±1.0	±1.0	±1.0		±0.15	±0.15	±0.15	±0.15	±0.1
1.0	1.0	1.0	1.0	1.0		10.0	10.0	10.0		8.0	8.0	8.0	8.0	8.0
2						3 ±12 to ±18				1 or 2				
±12 to ±18						±15				±10 to ±30				
±50 100.0					100.0				DXA-100 ±80 mA/DXA-200 ±70 mA					
						0.002				0.005				
0.002							0.002					0.003		
-40°C to +80°C							10°0+0 +0	200			40	°C+0 170	\°C	
						-40°C to +80°C			-40°C to +70°C					
-60°C to +90°C						-60°C to +90°C 20 g				-40°C to +75°C				
20 g 1000g, 1msec, 1/2 sine						1000g, 1msec, 1/2 sine			1500g, 1msec, 1/2 sine					
MIL-STD-202, Mtd 112				MIL-STD-202, Mtd 112			MIL-STD-202, Mtd 112							
	WILC	31D 202, IV	ita IIZ			IVIIL	O1D 202, W	tu 112			WILCO	D 202, IVII	u 112	
8.0 oz.						16 oz.			DXA-100 8 oz./DXA-200 10 oz.					
3.609" L x 1.62" W x 1.83" H					3.25" L x 2.75" W x 2.75" H				3.609" L x 1.62" W x 1.83" H					
Yes						Ves				Yes				