

**INFORMATION RELEVANT TO THE CONTENT  
OF THIS PDF IS HIGHLIGHTED BELOW.**
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# Specialty Sensors

The specialty sensors are modifications of Wilcoxon accelerometer and hydrophone designs to meet specific application requirements. The Zerkometer™ and leak detection sensors are specialty sensors that have found wide use and acceptance in industry.

## Zerkometer™

The Zerkometer accelerometers are designed to be mounted where zerk fittings exist to grease bearings. Since the grease fittings are usually located very close to the bearing they provide an ideal location for accelerometers to acquire dynamic vibration data. The Zerkometer has a tapered pipe thread base, a grease channel through the base and a zerk fitting on the side to allow users continued access to grease the bearing using existing zerk greasing equipment. The Zerkometer has excellent frequency response using the pipe thread mounting base and can be used for most high frequency analysis techniques.

## Leak Detection Sensors

Wilcoxon manufactures two types of leak detection sensors, accelerometers and hydrophones. The accelerometers are used like microphones to "listen" to the vibration of the ground while the hydrophones are used to "listen" to the sounds of leaks in the piping. The accelerometers are very high sensitivity to provide the highest levels of signals to facilitate hearing the leaks through vibration in the earth caused by the noise of the leak.

The leak detection hydrophone is a pressure sensor that is directly coupled to the fluid system to allow listening to the acoustic signal produced by a leak. The sensor has a pipe thread base for mounting directly to the piping. There is an air release valve built in to permit easy purging of the air after the sensor is installed. These hydrophones have been well accepted for detecting and locating leaks.

## Wilcoxon Specialty Sensors:

| Model     | Style       | Sensitivity        | Low Freq | High Freq | Accel Range |
|-----------|-------------|--------------------|----------|-----------|-------------|
| 221A      | shear       | 100 mV/g           | 0.5 Hz   | 7,000 Hz  | 80 g peak   |
| 221B      | shear       | 100 mV/g           | 0.5 Hz   | 10,000 Hz | 80 g peak   |
| 222A      | shear       | 100 mV/g           | 0.5 Hz   | 8,500 Hz  | 80 g peak   |
| 996LD     | compression | 12 V/g             | 10 Hz    | 4,000 Hz  | 0.10 g peak |
| H571LD-1A | compression | -187 dB re 1 V/µPa | 5.0 Hz   | 20,000 Hz | -           |
| H571LD-2  | compression | -175 dB re 1 V/µPa | 5.0 Hz   | 20,000 Hz | -           |

Note: Frequency @  $\pm 3\text{dB}$ .

## Model 221A

### Accelerometer with Grease Fitting Mount

**DYNAMIC**

|  |                                  |
|--|----------------------------------|
| Sensitivity, $\pm 20\%$ , $25^\circ\text{C}$ ..... | 100 mV/g                         |
| Acceleration Range .....                           | 80 g peak                        |
| Amplitude Nonlinearity .....                       | 1%                               |
| Frequency Response, nominal <sup>1</sup> :         |                                  |
| $\pm 3\text{ dB}$ .....                            | 0.5 - 7,000 Hz                   |
| Resonance Frequency, nominal .....                 | 13 kHz                           |
| Transverse Sensitivity, max .....                  | 5% of axial                      |
| Temperature Response .....                         | -50°C      -7%<br>+80°C      +5% |

**ELECTRICAL**

|                             |                                |                                   |
|-----------------------------|--------------------------------|-----------------------------------|
| Power Requirement:          | voltage source .....           | 18 - 30 VDC                       |
|                             | current regulating diode ..... | 2 - 10 mA                         |
| Electrical Noise, equiv. g: |                                |                                   |
| Broadband                   | 2.5 Hz to 25 kHz .....         | 700 $\mu\text{g}$                 |
| Spectral                    | 10 Hz .....                    | 10 $\mu\text{g}/\sqrt{\text{Hz}}$ |
|                             | 100 Hz .....                   | 5 $\mu\text{g}/\sqrt{\text{Hz}}$  |
|                             | 1000 Hz .....                  | 5 $\mu\text{g}/\sqrt{\text{Hz}}$  |
| Output Impedance, max.      |                                | 100 $\Omega$                      |
| Bias Output Voltage .....   |                                | 12 VDC                            |
| Grounding .....             |                                | case isolated                     |

**ENVIRONMENTAL**

|                               |                               |
|-------------------------------|-------------------------------|
| Temperature Range .....       | -50 to 80°C                   |
| Vibration Limit .....         | 500 g peak                    |
| Shock Limit .....             | 5,000 g peak                  |
| Sealing .....                 | Hermetic                      |
| Base Strain Sensitivity, max. | 0.00002 g/ $\mu\text{strain}$ |

**PHYSICAL**

|                              |                                  |
|------------------------------|----------------------------------|
| Sensing Element Design ..... | PZT ceramic / shear              |
| Weight .....                 | 53 grams                         |
| Case Material .....          | 316L stainless steel             |
| Mounting .....               | 1/4 - 28 taper stud              |
| Zerk Grease Fitting .....    | Steel, 90° angle<br>1/4-28 taper |

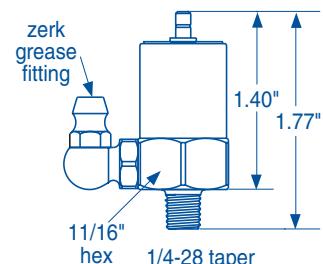
| CONNECTOR PIN | FUNCTION      |
|---------------|---------------|
| SHELL         | common        |
| PIN           | power/ signal |
| HOUSING       | isolated      |

| CABLE CONDUCTOR COLOR |
|-----------------------|
| Shield                |
| Center                |
| N/C                   |

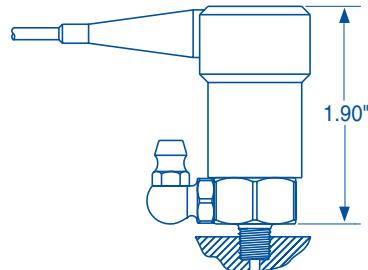
NOTES: <sup>1</sup> At 50 lbs. inch torque.

ACCESSORIES SUPPLIED: Model GF90: 90° steel 1/4-28 Zerk grease fitting; Calibration data (level 2).

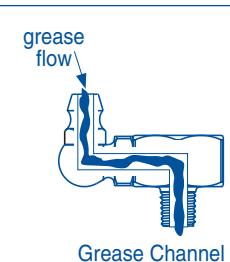
AVAILABLE ACCESSORIES: GFA18 – Grease fitting adapter, 1/4-28 taper - 1/8 female; Hex thread mounting adapters; (Call factory Customer Service).



Model 221A

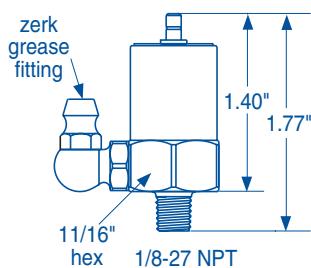
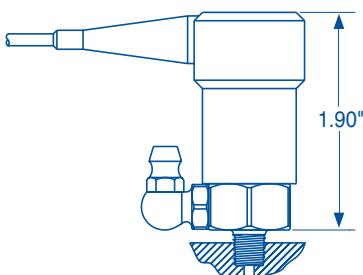
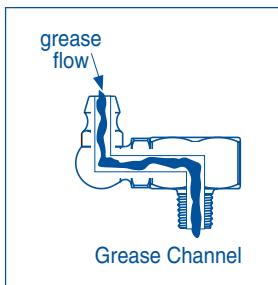


Model 221A with mating connector and cable



**FEATURES:**

- Rugged design
- Corrosion resistant
- Hermetic seal
- ESD protection
- Reverse wiring protection
- Grease channel through sensor body

**Model 221B****Model 221B with  
mating connector  
and cable**

## **Model 221B**

### *Accelerometer with Grease Fitting Mount*

**DYNAMIC**

|  |  |
|--|--|
| Sensitivity, $\pm 20\%$ , $25^\circ\text{C}$ ..... | 100 mV/g   |
| Acceleration Range .....                           | 80 g peak  |
| Amplitude Nonlinearity .....                       | 1%   |
| Frequency Response, nominal <sup>1</sup> :         |  |
| $\pm 3\text{ dB}$ .....                            | 0.5 - 10,000 Hz  |
| Resonance Frequency, nominal .....                 | 18 kHz   |
| Transverse Sensitivity, max .....                  | 5% of axial  |
| Temperature Response .....                         | $-50^\circ\text{C}$ $-7\%$<br>$+80^\circ\text{C}$ $+5\%$ |

**ELECTRICAL**

|                             |                                |                                   |
|-----------------------------|--------------------------------|-----------------------------------|
| Power Requirement:          | voltage source .....           | 18 - 30 VDC                       |
|                             | current regulating diode ..... | 2 - 10 mA                         |
| Electrical Noise, equiv. g: |                                |                                   |
| Broadband .....             | 2.5 Hz to 25 kHz .....         | 700 $\mu\text{g}$                 |
| Spectral .....              | 10 Hz .....                    | 10 $\mu\text{g}/\sqrt{\text{Hz}}$ |
|                             | 100 Hz .....                   | 5 $\mu\text{g}/\sqrt{\text{Hz}}$  |
|                             | 1000 Hz .....                  | 5 $\mu\text{g}/\sqrt{\text{Hz}}$  |
| Output Impedance, max.      |                                | 100 $\Omega$                      |
| Bias Output Voltage .....   |                                | 12 VDC                            |
| Grounding .....             |                                | case isolated                     |

**ENVIRONMENTAL**

|                               |                               |
|-------------------------------|-------------------------------|
| Temperature Range .....       | -50 to $80^\circ\text{C}$     |
| Vibration Limit .....         | 500 g peak                    |
| Shock Limit .....             | 5,000 g peak                  |
| Sealing .....                 | Hermetic                      |
| Base Strain Sensitivity, max. | 0.00002 g/ $\mu\text{strain}$ |

**PHYSICAL**

|                              |   |
|------------------------------|---|
| Sensing Element Design ..... | PZT ceramic / shear                     |
| Weight .....                 | 57 grams                                |
| Case Material .....          | 316L stainless steel                    |
| Mounting .....               | 1/8 - 27 NPTstud                        |
| Zerk Grease Fitting .....    | Steel, $90^\circ$ angle<br>1/4-28 taper |
| Mating Connector .....       | R35                                     |
| Recommended Cabling .....    | J96                                     |

| CONNECTOR PIN           | FUNCTION                            |
|-------------------------|-------------------------------------|
| SHELL<br>Pin<br>Housing | common<br>power/ signal<br>isolated |

| CABLE CONDUCTOR COLOR   |
|-------------------------|
| Shield<br>Center<br>N/C |

**NOTES:** <sup>1</sup> At 200 inch lbs. torque and 0.225 inch thread engagement.

**ACCESSORIES SUPPLIED:** Model GF90: 90° steel 1/4-28 Zerk grease fitting;  
Calibration data (level 2).

**AVAILABLE ACCESSORIES:** GFA18 – Grease fitting adapter, 1/4-28 taper - 1/8 female; Hex  
thread mounting adapters; (Call factory Customer Service).



## Model 222A

### Accelerometer with Grease Fitting Mount

**DYNAMIC**

|  |                                   |
|--|-----------------------------------|
| Sensitivity, ±10%, 25°C .....              | 100 mV/g                          |
| Acceleration Range .....                   | 80 g peak                         |
| Amplitude Nonlinearity .....               | 1%                                |
| Frequency Response <sup>1</sup> , nominal: |                                   |
| ± 5% .....                                 | 3 - 5,000 Hz                      |
| ±10% .....                                 | 1 - 6,000 Hz                      |
| ± 3 dB .....                               | 0.5 - 8,500 Hz                    |
| Resonance Frequency .....                  | 23 kHz                            |
| Transverse Sensitivity, max .....          | 5% of axial                       |
| Temperature Response .....                 | -50°C      -5%<br>+120°C      +5% |

**ELECTRICAL**

|                             |                                |                                    |
|-----------------------------|--------------------------------|------------------------------------|
| Power Requirement:          | voltage source .....           | 18 - 30 VDC                        |
|                             | current regulating diode ..... | 2 - 10 mA                          |
| Electrical Noise, equiv. g: |                                |                                    |
| Broadband .....             | 2.5 Hz to 25 kHz .....         | 700 µg                             |
| Spectral .....              | 10 Hz .....                    | 10 µg/√Hz                          |
|                             | 100 Hz .....                   | 5 µg/√Hz                           |
|                             | 1000 Hz .....                  | 5 µg/√Hz                           |
| Output Impedance, max ..... |                                | 100 Ω                              |
| Bias Output Voltage .....   |                                | 12 VDC                             |
| Grounding .....             |                                | case isolated, internally shielded |

**ENVIRONMENTAL**

|  |                  |
|--|------------------|
| Temperature Range .....                          | -50 to 120°C     |
| Vibration Limit .....                            | 500 g peak       |
| Shock Limit .....                                | 5,000 g peak     |
| Electromagnetic Sensitivity, equiv. g, max ..... | 70 µg/gauss      |
| Sealing .....                                    | Hermetic         |
| Base Strain Sensitivity, max .....               | 0.00002 g/strain |

**PHYSICAL**

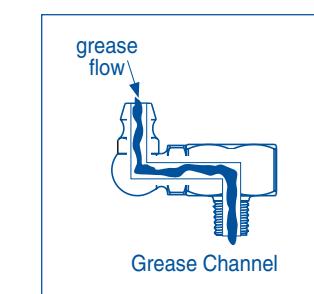
|                              |                                  |
|------------------------------|----------------------------------|
| Sensing Element Design ..... | PZT ceramic / shear              |
| Weight .....                 | 76 grams                         |
| Case Material .....          | 316L stainless steel             |
| Mounting .....               | 1/8 - 27 NPT stud                |
| Zerk Grease Fitting .....    | Steel, 90° angle<br>1/4-27 taper |
| Output Connector .....       | 2 pin, MIL-C-5015 style          |
| Mating Connector .....       | R6 type, but not R6SL            |
| Recommended Cabling .....    | J10 / J9T2A                      |

| CONNECTOR PIN | FUNCTION      |
|---------------|---------------|
| SHELL         | ground        |
| A             | power/ signal |
| B             | common        |

NOTES: <sup>1</sup> At 200 inch/lb. torque and 0.225 inch thread engagement.

ACCESSORIES SUPPLIED: Model GF90: 90° steel 1/4-28 Zerk grease fitting; Calibration data (level 2).

AVAILABLE ACCESSORIES: GFA18 – Grease fitting adapter, 1/4-28 taper - 1/8 female; Hex thread mounting adapters; (Call factory Customer Service).



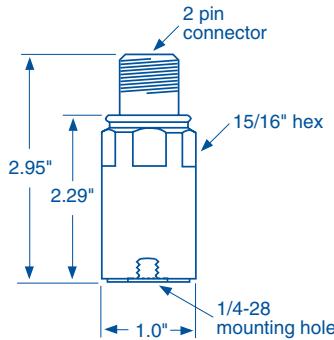


## Model 996LD

### High Sensitivity Accelerometer

#### FEATURES:

- Low noise floor
- High sensitivity
- Compatible with many commercially available leak detection systems



#### DYNAMIC

|                                    |               |
|------------------------------------|---------------|
| Sensitivity .....                  | 12 V/g, ±3 dB |
| Frequency Response, ±3 dB .....    | 10 - 4,000 Hz |
| Resonance Frequency, nominal ..... | 14 kHz        |
| Acceleration Range, nominal .....  | 0.10 g peak   |
| Shock Limit .....                  | 10,000 g      |

#### ELECTRICAL

|                                 |               |
|---------------------------------|---------------|
| Supply Voltage .....            | 12 - 24 VDC   |
| Supply Current .....            | 2 mA          |
| Bias Output Voltage .....       | 4.8 - 7.5 VDC |
| Grounding .....                 | case grounded |
| Electrical Noise, nominal ..... |               |
| 100 Hz .....                    | 0.08 µg/√Hz   |
| 1000 Hz .....                   | 0.016 µg/√Hz  |

#### ENVIRONMENTAL

|                         |                 |
|-------------------------|-----------------|
| Temperature Range ..... | -10°C to 80°C   |
| Sealing .....           | hermetic design |

#### PHYSICAL

|                     |                         |
|---------------------|-------------------------|
| Case Material ..... | 316 stainless steel     |
| Mounting .....      | 1/4 - 28 tapped hole    |
| Connector .....     | 2 pin, MIL-C-5015 style |

|                      |               |
|----------------------|---------------|
| Pin-out: Pin A ..... | power, signal |
| Pin B .....          | common, case  |

Mating Connector .....

Wilcoxon R6 (Amphenol 97-106A-10SL-4S or MS-3106A-10SL-4S)

ACCESSORIES SUPPLIED: Foam sleeve shock protector; SF6 mounting stud

ACCESSORIES AVAILABLE: Cable to interface with leak detector systems; magnetic base

## Model H571LD-1A

### Leak Detection Hydrophone

**DYNAMIC**

Sensitivity,  $\pm 3$  dB .....  $-187$  dB re  $1V/\mu Pa$   
 Amplifier Frequency Response,  $\pm 3$  dB .....  $5$  Hz to  $20$  kHz

**ELECTRICAL**

Powering:  
 voltage source .....  $9 - 15$  VDC  
 current regulating diode .....  $1.5 - 4$  mA  
 Bias Voltage .....  $6$  VDC

**ENVIRONMENTAL**

Maximum Temperature .....  $60^{\circ}C$   
 Maximum Pressure .....  $150$  psi

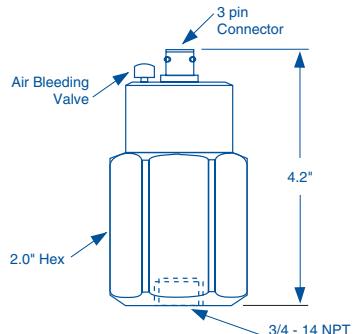
**PHYSICAL**

Mounting .....  $3/4 - 14$  NPT  
 Case Material ..... 316 stainless steel housing  
 Output Connector ..... 3 pin, MIL-C-26482  
 Mating Connector ..... Wilcoxon Research R4  
 (Amphenol PTO6A-8-3S(SR))

|          |             |               |
|----------|-------------|---------------|
| Pin Out: | PIN A ..... | Case          |
|          | PIN B ..... | Common        |
|          | PIN C ..... | Power, Signal |

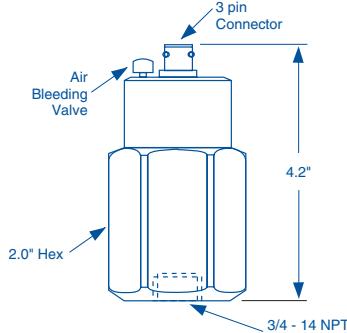
**FEATURES:**

- Low noise floor
- High sensitivity
- Compatible with many commercially available leak detection systems



**FEATURES:**

- Low noise floor
- High sensitivity
- Compatible with many commercially available leak detection systems



## Model H571LD-2

### Leak Detection Hydrophone

**DYNAMIC**

|  |                         |
|--|-------------------------|
| Sensitivity, $\pm 3$ dB .....                  | -175 dB re 1V/ $\mu$ Pa |
| Amplifier Frequency Response, $\pm 3$ dB ..... | 5 Hz to 20 kHz          |

**ELECTRICAL**

|                                |            |
|--------------------------------|------------|
| Powering:                      |            |
| voltage source .....           | 9 - 15 VDC |
| current regulating diode ..... | 1.5 - 4 mA |
| Bias Voltage .....             | 6 VDC      |

**ENVIRONMENTAL**

|                              |         |
|------------------------------|---------|
| Maximum Input Pressure ..... | 150 PSI |
| Maximum Temp .....           | 60°C    |

**PHYSICAL**

|                        |  |
|------------------------|--|
| Mounting .....         | 3/4 - 14 NPT                                     |
| Case Material .....    | 316 stainless steel housing                      |
| Output Connector ..... | 3 pin, MIL-C-26482                               |
| Mating Connector ..... | Wilcoxon Research R4<br>Amphenol PTO6A-8-3S (SR) |

|          |             |               |
|----------|-------------|---------------|
| Pin Out: | Pin A ..... | Case          |
|          | Pin B ..... | Common        |
|          | Pin C ..... | Power, Signal |



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