The vibration transducer SLD121 A is a piezoelectric accelerometer of compression type with built-in preamplifier, designed for vibration monitoring of industrial machinery. The electrical signal is isolated from the transducer housing.

The transducer is mounted against a smooth, flat surface on the machine. Standard thread size is M8. The transducer is connected via a coaxial cable (SPM 90005-L or 90267-L) with SMB connector.

**Technical data**

- **Nominal sensitivity, main axis:** 1.2 mV/m/s² * = 12 mV/g
- **Transverse sensitivity:** max. 10%
- **Typical base strain sensitivity:** 0.01 m/s²/m strain
- **Linear frequency range:** 2 to 1000 Hz (±1 dB)
- **Max. peak acceleration:** 600 m/s² = 60 g
- **Settling time:** 3 sec
- **Bias point:** 6 to 9 V (typical 8 V)
- **Temperature range:** −40°C to +125°C
  (−40°F to 260°F)
- **Power requirements:** 12 to 24 V, 2 to 5 mA
- **Casing:** Stainless acid proof steel
- **Sealing:** IP 67 together with connector SPM 15388, 14990 or 15164
- **Isolation:** Case isolated, > 1 Mohm
- **Torque limit:** 10 Nm (7.4 lbf ft)
- **Weight:** 110 grams (4 oz)
- **Connector type:** SMB

* Individual value given on the calibration chart.

**Mounting tools**

- 81027 Holder for counterbore
- 81057 Counterbore, diameter 20 mm
- 81031 Pilot for M8

To drill the mounting hole, use drill bit 6.9 mm. Torque the transducer with a 24 mm torque wrench.
The vibration transducer SLD121B and SLD121F are piezoelectric accelerometers of compression type with built-in preamplifier, designed for vibration monitoring of industrial machinery. The electrical signal is isolated from the transducer housing.

The transducer is mounted against a smooth, flat surface on the machine. SLD121B has thread size M8 and SLD121F has thread size UNF 1/4". The transducer is connected via a twisted pair cable with 2 pin connector, compatible with 2 pin MIL-C-5015 style.

**Technical data**
- Nominal sensitivity, main axis: 1.2 mV/m/s² = 12 mV/g
- Transverse sensitivity: max. 10%
- Typical base strain sensitivity: 0.01 m/s²/µ strain
- Linear frequency range: 2 to 1000 Hz (± 1 dB)
- Max. peak acceleration: 600 m/s² = 60 g
- Setting time: 3 sec
- Bias point: 6 to 9 V (typical 8 V)
- Temperature range: –40° C to +125° C (–40° F to 260° F)
- Power requirements: 12 to 24 V / 2 to 5 mA
- Casing: Stainless acid proof steel
- Sealing: IP 67 together with appropriate connector
- Isolation: Case isolated, > 1 Mohm
- Torque limit: 10 Nm (7.4 lbf ft)
- Weight: 110 grams (4 oz)
- Connector type: Compatible with 2 pin MIL-C-5015 style

* Individual value given on the calibration chart.

**Mounting tools**
- 81027 Holder for counterbore
- 81030 Pilot for UNF 1/4" (SLD121F)
- 81031 Pilot for M8 (SLD121B)
- 81057 Counterbore, diameter 20 mm

To drill the mounting hole, use drill bit 6.9 mm (5.5 for UNF 1/4"). Torque the transducer with a 24 mm torque wrench.
The vibration transducer SLD122 A is a piezo-electric accelerometer of compression type with built-in preamplifier, designed for vibration monitoring of industrial machinery. The electrical signal is isolated from the transducer housing.

The transducer is mounted against a smooth, flat surface on the machine. Standard thread size is M8. The transducer is connected via a coaxial cable (SPM 90005-L or 90267-L) with SMB connector.

**Technical data**

Nominal sensitivity, main axis: 4 mV/m/s² * = 40 mV/g  
Transverse sensitivity: max. 10%  
Typical base strain sensitivity: 0.01 m/s²/µ strain  
Linear frequency range: 2 to 5000 Hz (±1 dB)  
Max. peak acceleration: 600 m/s² = 60 g  
Settling time: 3 sec  
Bias point: 6 to 9 V (typical 8) V  
Temperature range: –40° C to +125° C  
(–40° F to 260° F)  
Power requirements: 12 to 24 V, 2 to 5 mA  
Casing: Stainless acid proof steel  
Sealing: IP 67 together with connector SPM 15388, 14990 or 15164  
Isolation: Case isolated, > 1 Mohm  
Torque limit: 10 Nm (7.4 lbf ft)  
Weight: 110 grams (4 oz)  
Connector type: SMB  

* Individual value given on the calibration chart.

**Mounting tools**

81027  Holder for counterbore  
81057  Counterbore, diameter 20 mm  
81031  Pilot for M8

To drill the mounting hole, use drill bit 6.9 mm. Torque the transducer with a 24 mm torque wrench.
The vibration transducer SLD122B and SLD122F are piezoelectric accelerometers of compression type with built-in preamplifier, designed for vibration monitoring of industrial machinery. The electrical signal is isolated from the transducer housing.

The transducer is mounted against a smooth, flat surface on the machine. SLD122B has thread size M8 and SLD122F has thread size UNF 1/4". The transducer is connected via a twisted pair cable with 2 pin connector, compatible with 2 pin MIL-C-5015 style.

**Technical data**

Nominal sensitivity, main axis: 4 mV/m/s² * = 40 mV/g

Transverse sensitivity: max. 10%

Typical base strain sensitivity: 0.01 m/s²/µ strain

Linear frequency range: 2 to 5000 Hz (±1 dB)

Max. peak acceleration: 600 m/s² = 60 g

Settling time: 3 sec

Bias point: 6 to 9 V (typical 8 V)

Temperature range: −40° C to +125° C

(−40° F to 260° F)

Power requirements: 12 to 24 V, 2 to 5 mA

Casing: Stainless acid proof steel

Sealing: IP 67 together with appropriate connector

Isolation: Case isolated, > 1 Mohm

Torque limit: 10 Nm (7.4 lbf ft)

Weight: 110 grams (4 oz)

Connector type: Compatible with 2 pin MIL-C-5015 style

* Individual value given on the calibration chart.

**Mounting tools**

81027 Holder for counterbore
81030 Pilot for UNF 1/4" (SLD122F)
81031 Pilot for M8 (SLD122B)
81057 Counterbore, diameter 20 mm

To drill the mounting hole, use drill bit 6.9 mm (5.5 for UNF 1/4"). Torque the transducer with a 24 mm torque wrench.
Vibration Transducer SLD144B /SLD144F

The vibration transducer SLD144B and SLD144F are piezoelectric accelerometers of compression type with built-in preamplifier, designed for vibration monitoring of industrial machinery. The electrical signal is isolated from the transducer housing.

The transducer is mounted against a smooth, flat surface on the machine. SLD144B has thread size M8 and SLD144F has thread size UNF 1/4". The transducer is connected via a twisted pair cable with 2 pin connector, compatible with 2 pin MIL-C-5015 style.

**Technical data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal sensitivity, main axis:</td>
<td>10 mV/m/s² * =100 mV/g</td>
</tr>
<tr>
<td>Transverse sensitivity:</td>
<td>max. 10%</td>
</tr>
<tr>
<td>Typical base strain sensitivity:</td>
<td>0.01 m/s²/µ strain</td>
</tr>
<tr>
<td>Linear frequency range:</td>
<td>2 Hz - 10 kHz (±1 dB) (-3 dB at 0.7 Hz typ)</td>
</tr>
<tr>
<td>Max. peak acceleration:</td>
<td>600 m/s² = 60 g</td>
</tr>
<tr>
<td>Setting time:</td>
<td>3 sec</td>
</tr>
<tr>
<td>Bias point:</td>
<td>11 to 13 V (typical 12 V)</td>
</tr>
<tr>
<td>Temperature range:</td>
<td>-40° C to +125° C (-40° F to 260° F)</td>
</tr>
<tr>
<td>Power requirements:</td>
<td>24 V /2 to 5 mA</td>
</tr>
<tr>
<td>Casing:</td>
<td>Stainless acid proof steel</td>
</tr>
<tr>
<td>Sealing:</td>
<td>IP 67 together with appropriate connector</td>
</tr>
<tr>
<td>Isolation:</td>
<td>Case isolated, &gt; 1 Mohm</td>
</tr>
<tr>
<td>Torque limit:</td>
<td>10 Nm (7.4 lbf ft)</td>
</tr>
<tr>
<td>Weight:</td>
<td>110 grams (4 oz)</td>
</tr>
<tr>
<td>Connector type:</td>
<td>Compatible with 2 pin MIL-C-5015 style</td>
</tr>
</tbody>
</table>

* Individual value given on the calibration chart.

**Mounting tools**

81027  Holder for counterbore
81030  Pilot for UNF 1/4" (SLD144F)
81031  Pilot for M8 (SLD144B)
81057  Counterbore, diameter 20 mm

To drill the mounting hole, use drill bit 6.9 mm for M8 and 5.5 mm for UNF 1/4". Torque the transducer with a 24 mm torque wrench.
The transducers TRV-18 and TRV-19 are piezo-electric accelerometers of compression type with built-in preamplifier, designed for vibration monitoring of industrial machinery. They are used in permanent installations with the CMM System and MG-4. The cable length between transducer and measuring unit is max. 50m (165 ft).

The transducer is mounted against a smooth, flat surface on the machine. TRV-18 has thread size M8 and TRV-19 has UNF 1/4”-28. The transducers are delivered with three washers for adjusting the connector angle. Each washer turns the transducer 90°. The coaxial cable (SPM 90005-L or 90267-L) with TNC connector must be secured with a clamp close to the transducer.

In moist environments, use sealing TNC cable plugs SPM 13008 to prevent cable corrosion. For electric insulation, use insulation foot TRX-18 / TRX-19.

**Technical data**

- Nominal sensitivity, main axis: 1.2 mV/m/s² *
- Transverse sensitivity: max. 10%
- Typical base strain sensitivity: 0.01 m/s²/strain
- Linear frequency range: 3 to 1000 Hz
- Max. peak acceleration: 600 m/s²
- Temperature range: -20°C to +125°C (-4°F to +260°F)
- Typical temperature drift: 0.25% / °C
- Housing, base: Stainless acid proof steel, Sandvik Grade:1802, EN:1.4523
- Design: Sealed
- Connector tightness: IP65 with TNC connector, IP67 with conn. SPM13008
- Weight: 135 grams (5 oz)
- Connector type: TNC
- Torque limit: 10 Nm (7.4 lbf/ft)
- Power requirement: 12 to 24 V DC
- Constant current: 2 to 5 mA
- Settling time: 3 sec
- Bias point: 5 to 11 V (typ 7 V)

* Individual value given on the calibration chart.

To drill the mounting hole, use drill bit 6.9 mm for M8 and 5.5 mm for UNF 1/4”-28. Torque and unscrew the transducer with a torque wrench and a 17 mm socket (SPM 81060).

**Mounting tools**

- 81027 Holder for counterbore
- 81057 Counterbore, diameter 20 mm
- 81030 Pilot for UNF 1/4”-28 (TRV-19)
- 81031 Pilot for M8 (TRV-18)
The transducers TRV-20 and TRV-21 are piezo-electric accelerometers of compression type with built-in pre-amplifier, designed for vibration monitoring of industrial machinery. The transducers are used in permanent installations with the CMS System (measuring unit VCM) and with the hand-held instrument Leonova. The cable length between the transducer and the measuring unit is max. 50 m (165 ft).

The transducer is mounted against a smooth, flat surface on the machine. TRV-20 has thread size M8 and TRV-21 has UNF 1/4"-28. The transducers are delivered with three washers for adjusting the connector angle. Each washer turns the transducer 90°. The coaxial cable (SPM 90005-L or 90267-L) with TNC connector must be secured with a clamp close to the transducer.

In moist environments, use sealing TNC cable plugs SPM 13008 to prevent cable corrosion. For electric insulation, use insulated installation foot TRX-18/19.

### Technical data

- **Nominal sensitivity, main axis:** 4.0 mV/m/s² *
- **Transverse sensitivity:** max. 10%
- **Typical base strain sensitivity:** 0.01 m/s²/µ strain
- **Linear frequency range:** 2 to 5000 Hz
- **Max. peak acceleration:** 600 m/s²
- **Temperature range:** -20°C to +125°C (-4°F to +260°F)
- **Power requirements:** 12–24 V, 2–5 mA
- **Casing:** Stainless acid proof steel, Sandvik Grade:1802, EN:1.4523
- **Design:** Sealed
- **Connector tightness:** IP65 with TNC connector
- **Weight:** 135 grams (5 oz)
- **Connector type:** TNC
- **Torque limit:** 10 Nm (7.4 lbf · ft)
- **Bias point:** 6 to 12 V (typ 8 V)

* Individual value given on the calibration chart.

### Mounting tools

- **81027** Holder for counterbore
- **81057** Counterbore, diameter 20 mm
- **81030** Pilot for UNF 1/4" (TRV-21)
- **81031** Pilot for M8 (TRV-20)

To drill the mounting hole, use drill bit 6.9 mm for M8 and 5.5 mm for UNF 1/4". Torque and unscrew the transducer with a torque wrench and a 17 mm socket (SPM 81086).
The transducers TRV-22 and TRV-23 are piezo-electric accelerometers of compression type, designed for vibration monitoring of industrial machinery. They can be used together with handheld instruments or in permanent installations. Max. cable length between transducer and measuring unit is 10 m (33 ft).

The transducer is mounted in a threaded hole on a smooth, flat surface on the machine. It is delivered with three washers for adjusting the connector angle. Each washer turns the transducer 90°. Fix low noise coaxial cable (SPM 90176-L or 90292-L) with TNC connector with a clamp close to the transducer.

For installations in moist environments, use sealing TNC cable plugs SPM 13008 to prevent cable corrosion.

**Technical data**
- Nominal sensitivity, main axis: 10 pC/m/s² (7-12 pC/m/s²) *
- Transverse sensitivity: max. 10%
- Typical base strain sensitivity: 0.01 m/s²/strain
- Linear frequency range: 0 to 5000 Hz
- Max. peak acceleration: 600 m/s²
- Temperature range: –30°C to +150°C
- Typical temperature drift: 0.25% / °C
- Housing, base: Stainless acid proof steel, Sandvik Grade:1802, EN:1.4523
- Design: Sealed
- Connector tightness: IP65 with TNC connector
- IP67 with conn. SPM13008
- Weight: 171 grams (6 oz)
- Connector type: TNC
- Torque limit: 10 Nm (7.4 lbf/ ft)

* Individual value given on the calibration chart.

To drill the mounting hole, use drill bit 6.9 mm (M8) or 5.5 mm (UNF 1/4"-28). Torque and unscrew the transducer with a torque wrench and a 17 mm socket (SPM 81086).

**Part Numbers**
- TRV-22  Vibration transducer, M8
- TRV-23  Vibration transducer, UNF 1/4"-28
- 13008  Sealing TNC cable plug
- 81027  Holder for counterbore
- 81057  Counterbore, diam. 20 mm
- 81030  Pilot for UNF 1/4" (TRV-23)
- 81031  Pilot for M8 (TRV-22)