Stainless steel models can be manufactured for wave pressure measurement.

- Wear of the pressure-sensing surface does not affect output or initial values.
- Load cell-based design is less affected by bending effects.
- Usable for pressure measurement of coal or grain in a silo.
- For pressure measurement of pulverulent (Powder) bodies of approximately 15 mm in diameter.

The BER-A-110S soil pressure transducers come with the cable attached in parallel to the pressure-sensing surface.

To Ensure Safe Usage
Do not apply a load more than the rated capacity (Pressure, load) to the applied pressure surface.

**BER-A-110S**
Wall-surface Soil Pressure Transducer

- Pressure Measurement
- 100 kPa to 2 MPa

**Specifications**

**Performance**
- **Rated Capacity**: See table below.
- **Nonlinearity**: Within ±1% RO
- **Hysteresis**: Within ±1% RO
- **Rated Output**: 1 mV/V or more

**Environmental Characteristics**
- **Safe Temperature**: -30 to 80°C
- **Compensated Temperature**: 0 to 70°C
- **Temperature Effect on Zero**: Within ±0.1% RO/°C
- **Temperature Effect on Output**: Within ±0.1%/°C

**Electrical Characteristics**
- **Safe Excitation**: ±0.1% RO
- **Recommended Excitation**: ±0.1% RO
- **Input Resistance**: 350 Ω ±2%
- **Output Resistance**: 350 Ω ±2%
- **Cable**: 4-conductor (0.5 mm²) chloroprene shielded cable, 10 mm diameter by 1 m long, bared at the tip (Shield is not connected to the case.)

**Mechanical Properties**
- **Safe Overloads**: ±100%
- **Pressure-sensing Surface**: Approx. φ 95 mm
- **Material**: Stainless steel metallic finish (Pressure sensing surface) ZnC-plated MF (Flange and cable outlet)
- **Water Resistance (Cable outlet)**: 600 kPa
- **Degree of Protection**: IP68 (IEC 60529), (600 kPa)
- **Weight**: Approx. 2.2 kg

*Optionally coated with anti-biofouling paint is possible.

<table>
<thead>
<tr>
<th>Models</th>
<th>Rated Capacity</th>
<th>Calculated Loads</th>
</tr>
</thead>
<tbody>
<tr>
<td>BER-A-100KP110S</td>
<td>100 kPa</td>
<td>709 N</td>
</tr>
<tr>
<td>BER-A-200KP110S</td>
<td>200 kPa</td>
<td>3.4 kN</td>
</tr>
<tr>
<td>BER-A-500KP110S</td>
<td>500 kPa</td>
<td>3.5 kN</td>
</tr>
<tr>
<td>BER-A-1MP110S</td>
<td>1 MPa</td>
<td>7.1 kN</td>
</tr>
<tr>
<td>BER-A-2MP110S</td>
<td>2 MPa</td>
<td>14.2 kN</td>
</tr>
</tbody>
</table>

**Application Example**

**A-A Section**

**B-B Section**

**Bottom View**

**Dimensions**