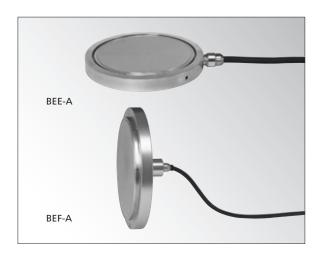
BEE-A/BEF-A

Soil Pressure Transducer



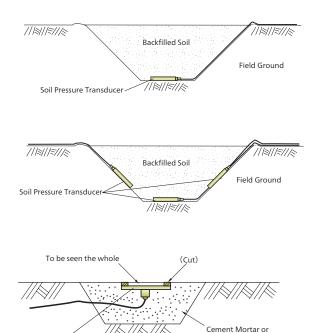
A pressure-sensing surface 160 mm in diameter, used most popularly in measuring fields.

- Applied pressure causes minimal diaphragm displacement thanks to a dual diaphragm design.
- Highly accurate displacement ratio of the pressuresensing surface to its diameter is less than 1/100000.
- It is possible to measure dynamic soil pressure caused by earthquake, etc.

The BEE-A and BEF-A series are soil pressure transducers with an outer diameter of 200 mm which are used most popularly in measuring fields. The BEE-A series for underground soil pressure measurement is embedded in a core zone of a rock fill dam or ordinary banking. The BEE-A series can also measure soil pressure of 3 or 4-face objects. The BEF-A series can be used for soil pressure measurement of a continuous underground earth retaining wall.

Application Example

Soil Pressure Transducer



Rock bed or Concrete

Mold-type Epoxy Cement

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±1% RO for 0.5 to 2 MPa
	Within ±3% RO for 200 kPa
Hysteresis	Within ±1% RO
Rated Output	1 mV/V or more for 0.5 to 2 MPa
	0.9 mV/V or more for 200 kPa

Pressure Measurement200 kPa to 2 MPa

Environmental Characteristics

Safe Temperature	-20 to 80°C
Compensated Temperature	-15 to 70°C
Temperature Effect on Zero	Within ±0.1% RO/°C
Temperature Effect on Output	Within ±0.1%/°C

Electrical Characteristics

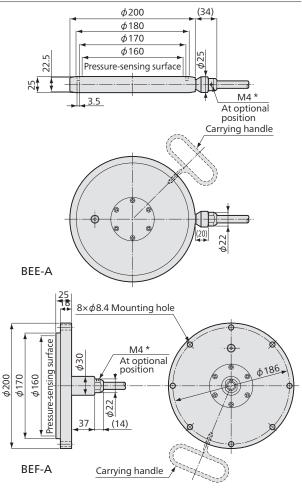
Safe Excitation		10 V AC or DC	
Recommended Excitation		2 to 10 V AC or DC	
Input Resistance		350 Ω ±1%	
Output Resistance		350 Ω ±1%	
Cable	4-conductor (0.5 mm²) chloroprene cable,		
11.5 mm diameter by 1 m long, bared at the tip			

Mechanical Properties

Safe Overloads

Weight Approx. 6 kg for BEE-A Approx. 5. / kg for BEF-A					
Models	Rated Capacity	Use			
BEE-A-200KP	200 kPa	Underground soil			
BEE-A-500KP	500 kPa	pressure			
BEE-A-1MP	1 MPa	measurement			
BEE-A-2MP	2 MPa	- measurement			
BEF-A-200KP	200 kPa	- Wall surface			
BEF-A-500KP	500 kPa	soil pressure measurement			
BEF-A-1MP	1 MPa				
BEF-A-2MP	2 MPa				

Dimensions



*For grounding of lightning arrester kit.