BEM-A

Soil Pressure Transducer

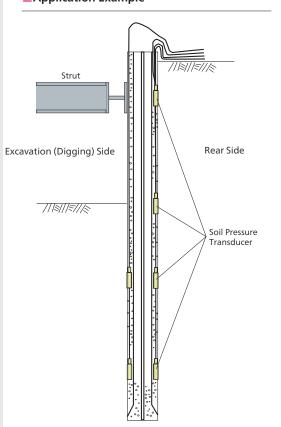


A pressure-sensing surface 80 mm in diameter. The stainless steel design enables marine applications.

- Dual diaphragm design with the pressure medium sealed between the pressure-sensing surface and strain-gage bonded diaphragm enables transmission of minute displacement through enlargement.
- Stainless steel construction

The BEM-A series is underground soil pressure transducers with a pressure-sensing surface 80 mm in diameter. The stainless steel design enables marine applications.

Application Example



Specifications

Performance

Rated Capacity	See table below.	
Nonlinearity	Within ±2% RO for 50 to 200 kPa	
	Within 1% RO for 0.5 to 1 MPa	
Hysteresis	Within ±1% RO	
Rated Output	Rated Output 0.25 mV/V or more for 50 kPa	
	0.5 mV/V or more for 100 kPa	
	1 mV/V or more for 0.2 to 1 MPa	

●Pressure Measurement ●50 kPa to 1 MPa

Environmental Characteristics

Safe Temperature	-20 to 80°C	
Compensated Temperature	-15 to 70°C	
Temperature Effect on Zero		
Within ±0.5% RO/°C for 50 kPa		
Within ±0.3% RO/°C for 100 to 200 kPa		
Within ±0.2% RO/°C for 0.5 to 1 MPa		
Temperature Effect on Outpu	ut Within ±0.1%/°	

Electrical Characteristics

Safe Excitation		10 V AC or DC
Recommended Excitation		2 to 8 V AC or DC
Input Resistance		350 Ω ±1%
Output Resistance		350 Ω ±1%
Cable	4-conductor (0.5 mm²) chloroprene cable, 8 mm diameter by	
1 m long, bared at the tip		

Mechanical Properties

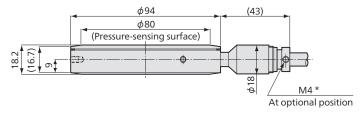
Safe Overloads	120%
Weight	Approx. 1 kg

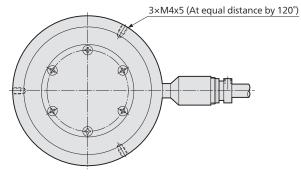
Models	Rated Capacity
BEM-A-50KP	50 kPa
BEM-A-100KP	100 kPa
BEM-A-200KP	200 kPa
BEM-A-500KP	500 kPa
BEM-A-1MP	1 MPa

To Ensure Safe Usage

Avoid installation onto a wall surface.

Dimensions





*For grounding of lightning arrester kit.