BER-S-12SA2

Pressure Measurement100 kPa to 3 MPa

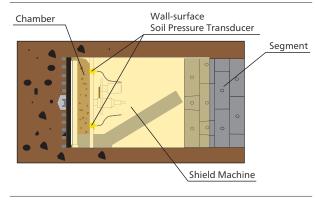
Wall-surface Soil Pressure Transducer



With a stopper, enables to support overload of 1000%

- High overload protection (Safe overload up to 1000%)
- Safe overload up to 1000% against the decenter load (With a stopper function)
- Selection of the rated overload as normal operation pressure possible

Application Example



Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±1% RO
Hysteresis	Within ±1% RO
Rated Output	Approx. 1 mV/V

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		12 V AC or DC		
Recommended Excitation		1 to 10 V AC or DC		
Input Resistance 350 Ω ±2%		350 Ω ±2%		
Output Resistance 350 Ω ±2%		350 Ω ±2%		
Cable 4-conductor (0.5 mm²) chloroprene shielded cable,				
10 mm diameter by 30 m long, bared at the tip				
(Shield is not connected to the case.)				

Mechanical Properties

Safe Over	oads 1000% soil pressure (Powdered & pore pressure)		
	And the pore pressure (Liquid & gas pressure) is		
	3 MPa.		
Material	Material Stainless steel metallic finish (Pressure-sensing surface)		
	ZnC-plated MF (Flange and cable outlet)		
Water Resistance (Cable outlet) 600 kPa			
Weight	Approx. See table below.		

Models	Rated Capacity	Calculated Loads	Weight (Excluding cable)
BER-S-100KP12SA2	100 kPa	420 N	3.1 kg
BER-S-200KP12SA2	200 kPa	840 N	3.1 kg
BER-S-500KP12SA2	500 kPa	2.1 kN	3.1 kg
BER-S-1MP12SA2	1 MPa	4.2 kN	4.4 kg
BER-S-2MP12SA2	2 MPa	8.4 kN	4.4 kg
BER-S-3MP12SA2	3 MPa	12.6 kN	4.4 kg

^{*}For pressure measurement of pulverulent bodies within ϕ 10 mm (Powdered & pore pressure)

Dimensions

