

Pore water pressure in ground

KPA-PA/KPB-PA Pore Pressure Gauge

Civil engineering design



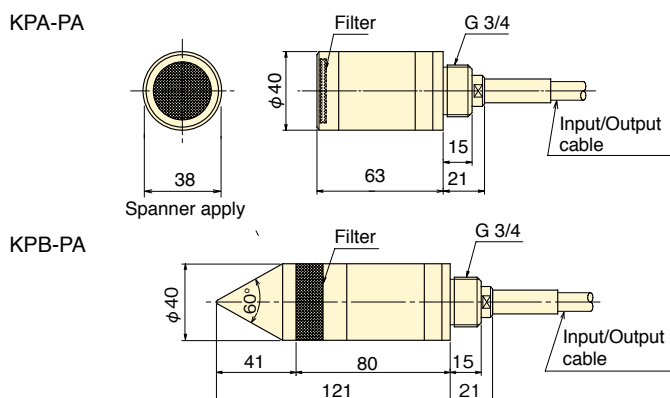
The KPA-PA and KPB-PA pore pressure gauges are used to measure pore water pressure in ground, sheet piles, piles, boreholes, etc. The KPA-PA is attached to a pile, a diaphragm wall, a sheet pile and so forth and also buried in ground to measure pore water pressure. The KPB-PA is buried in a borehole to measure pore water pressure in bedrock.

Protection ratings: IP68 equivalent

SPECIFICATIONS

TYPE	KPA-200KPA KPB-200KPA	KPA-500KPA KPB-500KPA	KPA-1MPA KPB-1MPA	KPA-2MPA KPB-2MPA
Capacity	200kPa	500kPa	1MPa	2MPa
Rated output	0.8mV/V (1600x10 ⁻⁶ strain)	1mV/V (2000x10 ⁻⁶ strain)		
Non-linearity	1%RO			
Outer diameter	φ 40mm			
Filter mesh	40μm(*)			
Allowable temperature range	0 ~ +60°C (No icing)			
Input/Output resistance	350Ω			
Recommended exciting voltage	3V or less			
Allowable exciting voltage	10V			
Weight	KPA-200KPA ~ KPA-2MPa 470 g		KPB-200KPA ~ KPB-2MPa 650 g	

Dual structure not affected by the outer lateral pressure
Made of all stainless steel with excellent corrosion resistance



Input/Output cable :
 φ 9mm 0.5mm² 4-core shielded chloroprene
 cable 2m

* : Filter mesh with 70μm available on request

KPC-PA/KPD-PA Pore Pressure Gauge

Civil engineering design



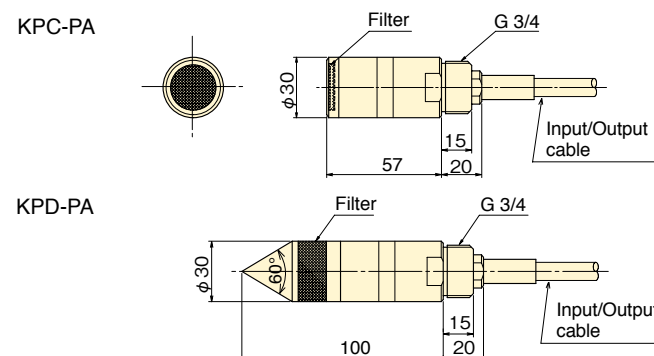
These pressure gauges, which are one size smaller than the KPA-PA and KPB-PA, are used to measure pore water pressure in soil, sheet piles, piles and boreholes. The KPC-PA is attached to a pile, a diaphragm wall, a sheet pile, etc., and buried in ground to measure pore water pressure. The KPD-PA is buried in a borehole to measure pore water pressure in bedrock.

Protection ratings: IP68 equivalent

SPECIFICATIONS

TYPE	KPC-200KPA KPD-200KPA	KPC-500KPA KPD-500KPA	KPC-1MPA KPD-1MPA	KPC-2MPA KPD-2MPA
Capacity	200kPa	500kPa	1MPa	2MPa
Rated output	0.8mV/V (1600x10 ⁻⁶ strain)	1mV/V (2000x10 ⁻⁶ strain)		
Non-linearity	1.5%RO	1%RO		
Outer diameter	φ 30mm			
Filter mesh	40μm(*)			
Allowable temperature range	0 ~ +60°C (No icing)			
Input/Output resistance	350Ω			
Recommended exciting voltage	3V or less			
Allowable exciting voltage	10V			
Weight	KPC-200KPA ~ KPC-2MPA 250 g		KPD-200KPA ~ KPD-2MPA 350 g	

Dual structure not affected by the outer lateral pressure
Made of all stainless steel with excellent corrosion resistance
Small, easy handling



Input/Output cable :
 φ 9mm 0.5mm² 4-core shielded chloroprene
 cable 2m

* : Filter mesh with 70μm available on request