

Soil pressure at construction site

KDE-PA/KDF-PA Soil Pressure Gauge

Civil engineering design



The KDE-PA and KDF-PA are soil pressure gauges each 50 mm in outside diameter. They are small in size and have a dual diaphragm structure, so they are widely used to conduct model experiments. The difference between these two models is the way the cable is attached to the gauge body.

Protection ratings: IP68 equivalent

Made of all stainless steel with excellent corrosion resistance

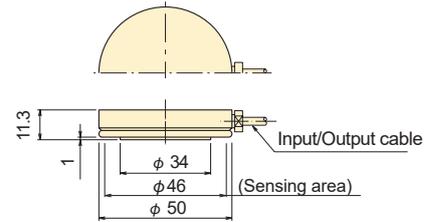
Minute displacement of pressure-sensitive area due to dual-diaphragm structure

Can measure dynamic earth pressure, too

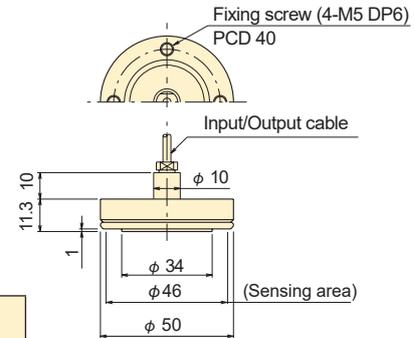
SPECIFICATIONS

| TYPE | KDE-200KPA KDF-200KPA | KDE-500KPA KDF-500KPA | KDE-1MPA KDF-1MPA | KDE-2MPA KDF-2MPA |
|------------------------------|--|---------------------------------------|---------------------------|----------------------|
| Capacity | 200kPa | 500kPa | 1MPa | 2MPa |
| Rated Output | 0.3mV/V (600×10 ⁻⁶ strain) | 0.5mV/V(1000×10 ⁻⁶ strain) | | |
| Non-linearity | 2%RO | | | |
| Allowable temperature range | -20 ~ +60°C | | | |
| Input/Output resistance | 350Ω | | | |
| Recommended exciting voltage | 3V or less | | | |
| Allowable exciting voltage | 10V | | | |
| Cable drawing direction | KDE-PA: from side of body | | KDF-PA: from back of body | |
| Weight | 160 g | | | |

KDE-PA



KDF-PA



Input/Output cable :
φ 3mm 0.05mm² 4-core shielded chloroprene cable 2m

KDG-PA/KDH-PA Load Cell type Soil Pressure Gauge

Civil engineering design



The KDG-PA and KDH-PA are stainless-steel soil pressure gauges each 100 mm in outside diameter. They are load-cell-type soil pressure gauges and designed with a high level of resistance to lateral pressure. The difference between these two models is the way the cable is attached to the gauge body.

Protection ratings: IP68 equivalent

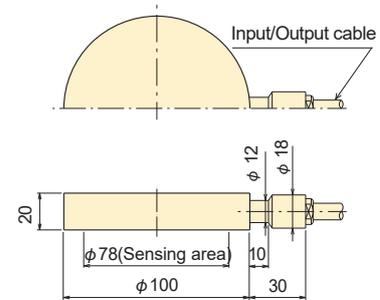
Made of all stainless steel with excellent corrosion resistance

Robuster than the diaphragm type

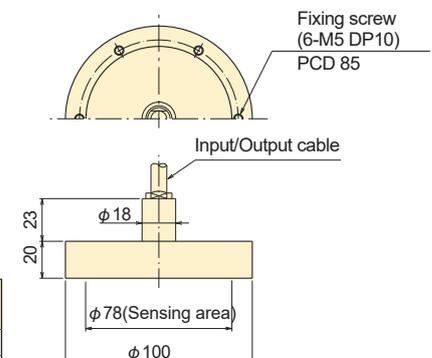
SPECIFICATIONS

| TYPE | KDG-200KPA KDH-200KPA | KDG-500KPA KDH-500KPA | KDG-1MPA KDH-1MPA | KDG-2MPA KDH-2MPA |
|------------------------------|-------------------------------------|--------------------------|---------------------------|----------------------|
| Capacity | 200kPa | 500kPa | 1MPa | 2MPa |
| Rated Output | 1mV/V(2000×10 ⁻⁶ strain) | | | |
| Non-linearity | 1%RO | | | |
| Allowable temperature range | -20 ~ +60°C | | | |
| Input/Output resistance | 350Ω | | | |
| Recommended exciting voltage | 3V or less | | | |
| Allowable exciting voltage | 10V | | | |
| Cable drawing direction | KDG-PA: from side of body | | KDH-PA: from back of body | |
| Weight | 1.2 kg | | | |

KDG-PA



KDH-PA



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