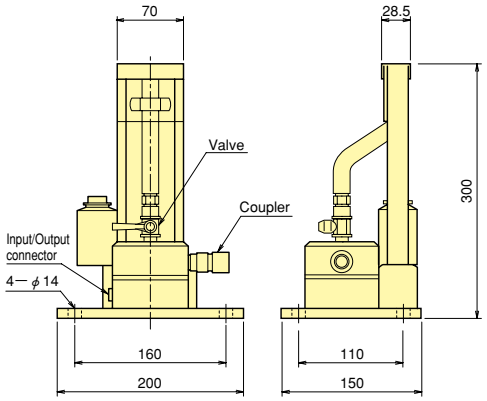
KWL-B Water-tube Displacement Transducer

The KWL-B displacement transducer is used to measure the amount of deflection of bridges and other structures and the amount of subsidence of embankments. A pressure meter assembled into this transducer detects displacement by sensing the change in the pressure of water in a Standard Water Tank (optional) set at a fixed point and connected to this transducer via a Water tube (optional). If a Water tube (optional) with an indicator is attached to this Water tube (optional), it is possible to visually check the amount of change in the pressure of water.

Protection ratings : IP 64 equivalent



■Specifications

Type	KWL-1B	KWL-2B
Capacity	1m	2m
Rated Output	1.5mV/V (3000×10⁻⁶ strain)	2mV/V (4000×10⁻⁶ strain)
Non-linearity	0.3%RO	
Temperature effect on zero	Approx. 0.01%RO/℃	
Compensated temperature range	0～+40℃ (no icing)	
Temperature range	−10～+60℃ (no incing)	
Over load	150%	
Input/output resistance	350Ω	
Recommended exciting voltage	Less than 3V	
Allowable exciting voltage	10V	
Weight	6kg	

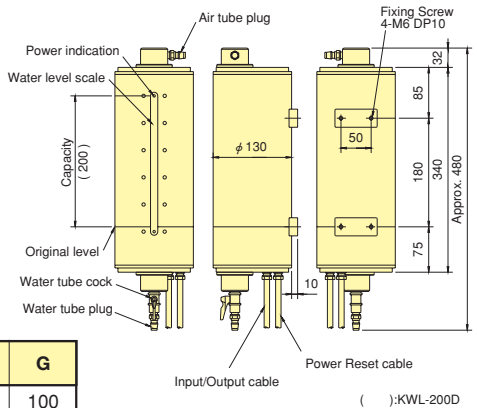
Supplied cable : CT9-4N3/WP-STB (ϕ 9mm 0.5mm² 4-core shielded chloroprene cable 3m)

KWL-D Water-tube Displacement Transducer

Built-in Arrestor

These displacement transducers are used to measure the vertical displacement of bridges and other civil engineering structures. If vertical displacement occurs, the transducer measures the amount of displacement by sensing the change of a water level in a Standard Water Tank (optional) set at a fixed point and connected to it via a Water tube (optional). This transducer measures the displacement of a structure based on a difference between the Standard Water level before displacement occurs and the water level after displacement occurs in the water in a Standard Water Tank.

Protection ratings : IP 54 equivalent



Type	A	B	C	D	E	F	G
KWL-100D	340	200	51	100	49	120	100
KWL-200D	480	340	75	180	85	130	200

■Specifications

Type	KWL-100D	KWL-200D
Capacity	100mm	200mm
Rated Output	Approx. 1mV/V (2000×10⁻⁶ strain)	
Non-linearity	0.5%RO	
Resolution	Approx. 0.1mm	
Temperature range	0～+50℃ (no incing)	
Input/output resistance	350Ω	
Recommended exciting voltage	Less than 2V	
Allowable exciting voltage	10V	
Power requirement	100Vac 50/60Hz 6VA MAX.	
Weight	4kg	5kg

Input/output cable : ϕ 9mm 0.5mm² 4-core shielded chloroprene cable 3m
Power cable : ϕ 9mm 0.75mm² 4-core shielded vinyl cable 3m