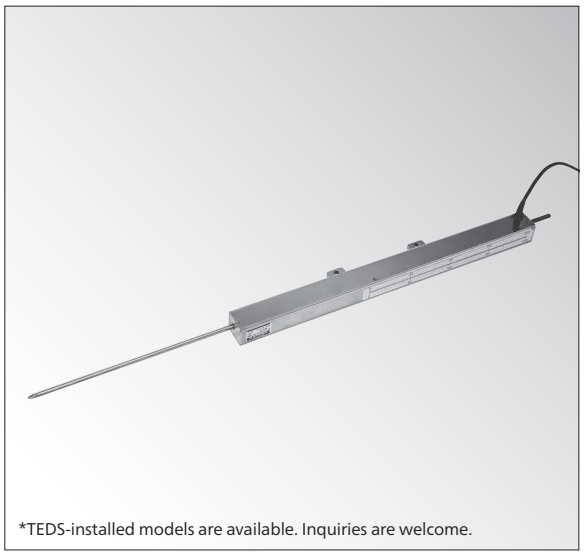
DTJ-A-200

Displacement Transducer

●Large output 5 mV/V ●200 mm



*TEDS-installed models are available. Inquiries are welcome.

Excellent temperature characteristics and highly accurate with nonlinearity ±0.3% RO

●Large output by 5 mV/V
●Both tension and compression
●Measuring scale is provided.

The high rated capacity of 200 mm makes this transducer widely applicable for measurement of structural relative displacement or absolute displacement from a steady point.

Specifications

Performance

Rated Capacity	200 mm
Nonlinearity	Within ±0.3% RO
Hysteresis	Within ±0.3% RO
Repeatability	0.3% RO or less
Rated Output	5 mV/V ±0.3%

Environmental Characteristics

Safe Temperature	-10 to 70°C (Non-condensing)
Compensated Temperature	0 to 60°C (Non-condensing)
Temperature Effect on Zero	Within ±0.02% RO/°C
Temperature Effect on Output	Within ±0.02%/°C

Electrical Characteristics

Safe Excitation	6 V AC or DC
Recommended Excitation	1 to 4 V AC or DC
Input Resistance	350 Ω ±1%
Output Resistance	350 Ω ±1%
Cable	4-conductor (0.065 mm²) vinyl shielded cable,
	4 mm diameter by 2 m long, terminated with a connector plug
	PRC03-12A10-7M
	(Shield wire is not connected to the case.)

Mechanical Properties

Frequency Response	DC to approx. 2 Hz
Measuring Force	Approx. 5.9 N
Weight	Approx. 560 g (Excluding cable)

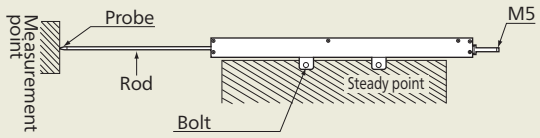
Optional Accessories

Extension rods EB-50, EB-100, EB-200, EB-300
Replacement probes X, XS, SH
Magnet base MB-B

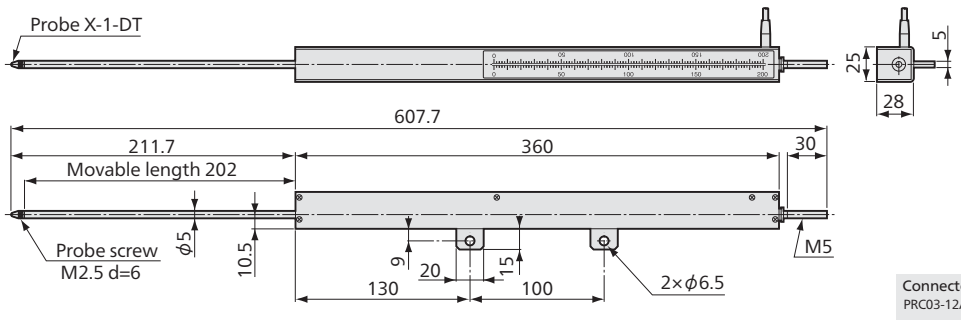
(Note 1) Initial unbalance with the rod fully extended is approximately -5000 to -6000 $\times 10^{-6}$ strain.
(Note 2) Avoid usage in vibration.
(Note 3) If large displacement is applied momentarily, it takes some time that output is settled.
(Note 4) Do not apply any displacement in other than expansion/contraction direction of the rod.

To Ensure Safe Usage

Fix the transducer to the steady point using two M6 bolts.



■Dimensions



Connector plug
PRC03-12A10-7M