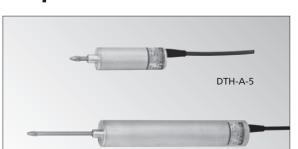
Displacement Transducer



DTH-A-50

DTH-A-100

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

Compact & Lightweight Excellent Temperature Characteristics Nonlinearity ±0.1% RO

- Large output of 5 mV/V
- Small measuring force of approx. 1.5 to 4 N

DTH-A series displacement transducers adopt a strain gages for the sensing elements to ensure longterm stable measurement. They are widely used for measurement of structural relative displacement or absolute displacement from a steady point.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±0.1% RO
Hysteresis	Within ±0.1% RO
Repeatability	0.1% RO or less
Rated Output	5 mV/V ±0.1%
	±0.15% (DTH-A-5)

• Large Output-Small Measuring Force

Environmental Characteristics

●5 to 100 mm

Safe Temperature	-10 to 70°C (Non-condensing)
Compensated Temperature	0 to 60°C (Non-condensing)
Temperature Effect on Zero	Within ±0.01% RO/°C
Temperature Effect on Output	Within ±0.01%/°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 connector plug					
PRC03-12A10-7M (Shield wire is not connected to the case.)					

Mechanical Properties

Frequency Response	DC to approx. 2 Hz
Measuring Force	See table below.
Weight	See table below (Excluding cable).

Standard Accessories Mounting band: FXB-5A x1 for DTH-A-5 to 30

FXB-50A x2 for DTH-A-50 FXB-100A x2 for DTH-A-100

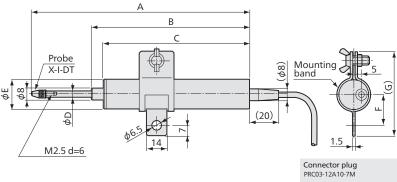
Optional Accessories (For details, see page 2-159.)

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

Notes:

- 1. Initial unbalance with the rod fully extended is approximately 2.5 to 3 mV/V.
- 2. Do not apply any displacement in other than expansion/contraction direction of the rod.

Dimensions



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Fix the transducer to the steady point, using accessory mounting band, screw and washer.
Mounting band Screw (\$\phi 6.5\$) Wing bolt Rod Probe Displacement Displac

To Ensure Safe Usage

Two mounting bands are provided standard for DTH-A-50 and 100

Models	Rated Capacity	Measuring Force	Α		В	_	φD	φЕ	_	(G)	Weight		
			MAX	MIN	В .		Ψυ	ΨΕ	· ·	(0)	weight		
DTH-A-5	5 mm	≈ 1.5 N	84.4	78.4	68	60	4						≈ 30 g
DTH-A-10	10 mm	≈ 2.2 N	96.4	85.4	75	67		4 20	21	57	≈ 35 q		
DTH-A-20	20 mm	≈ 2.2 N	122.4	101.4	91	83		20			~ 33 g		
DTH-A-30	30 mm	≈ 2.2 N	149.4	118.4	108	100					≈ 40 g		
DTH-A-50	50 mm	≈ 3 N	209.5	158.5	148	140	4	25	23.5	62	≈ 75 g		
DTH-A-100	100 mm	≈ 4 N	359.5	258.5	248	240	5	35	28.5	72	≈ 200 g		











