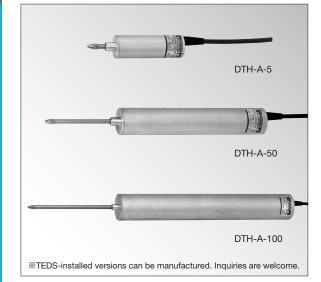
# DTH-A **Displacement Transducers**



## **Compact and Lightweight Design, Excellent Temperature Characteristics, and Highly Accurate** with Nonlinearity ±0.1% RO

Large output of 5 mV/V (10000µm/m)

Small measuring force of approx. 1.5 to 4 N

DTH-A series displacement transducers adopt a strain gage for the sensing element to ensure longterm stable meas-urement. They can widely be used for measurement of structural relative displacement or absolute displacement from a steady point.

#### Large Output Small Measuring Force 5 to 100 mm

## **Specifications**

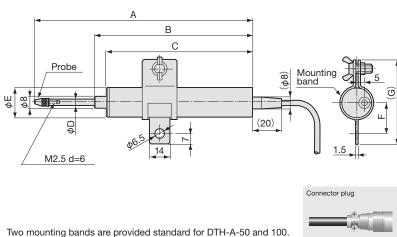
Performance								
Rated Capacity :	See table below.							
Nonlinearity :	Within±0.1% RO							
Hysteresis :	Within±0.1% RO							
Repeatability :	0.1% RO or less							
Rated Output :	5 mV/V (10000µm/m) ±0.1%							
Environmenta	Characteristics							
Safe Temperatur		-10 to 70°C (noncondensing)						
Compensated Te	emperature Range :	0 to 60°C (noncondensing)						
Temperature Effe	ect on Zero Balance :	Within±0.01% RO/°C						
Temperature Effe	ect on Output :	Within±0.01%/C						
<b>Electrical Char</b>	acteristics							
Safe Excitation V		/ AC or DC						
	Excitation Voltage : 1 1							
Input Resistance		out Resistance: 350±1%						
Output Resistance		Output Resistance: 350±1%						
	tor (0.065mm²) vinyl sł							
	, .	minated with connector plug						
(Shield wi	re is not connected to	mainframe.)						
Mechanical Pro	operties							
Frequency Respo	onse Range : DC to ap	oprox. 2 Hz						
Measuring Force	ce : See table below.							
Weight :	See table below.							
Standard Accessor		1 for DTH-A-5 to 30 2 for DTH-A-50 and 100						

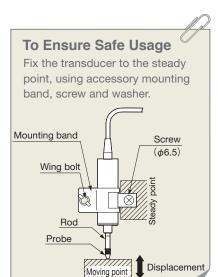
Optional Accessories (For details, refer to page 2-141.) Extension rods EB-50/100/200 Replacement probes X/XS/SH

Magnet base MB-B

- Notes: 1. Initial unbalance with the rod fully extended is approximately -5000 to -6000 μm/m.
- 2. Do not apply any displacement in other than expansion/contraction direction of the rod.

### Dimensions





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

Model	Rated Capacity	Measuring Force (Approx.)	A MAX MIN		В	С	φD	φE	F	(G)	Weight (Approx.)
DTH-A-5	5mm	1.5N	84.4	78.4	68	60	4	20	21	57	30g
DTH-A-10	10mm	2.2N	96.4	85.4	75	67					35g
DTH-A-20	20mm	2.2N	122.4	101.4	91	83					
DTH-A-30	30mm	2.2N	149.4	118.4	108	100					40g
DTH-A-50	50mm	3N	209.5	158.5	148	140	4	25	23.5	62	75g
DTH-A-100	100mm	4N	359.5	258.5	248	240	5	35	28.5	72	200g