## **Displacement Transducers**



The scale and pointer on the main body provides approximate reading of the displacement

Tension displacement is measured by attaching a wire to the hook bolt

#### **Features**

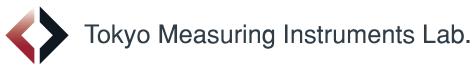
- Realizes stable measurement
- Convenient scale and pointer
- Applicable to tension displacement measurement



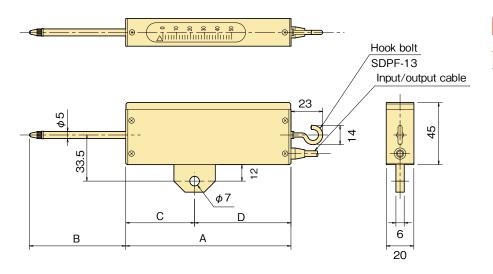
This is a strain gauge type displacement transducer for general purpose. This transducer has a small cantilever inside, and displacement is mechanically converted into deflection of the cantilever. Strain, which is proportional to the deflection, is generated on the cantilever and is measured by strain gauges. Stable measurement is possible even for a small displacement.

The hook bolt is integrated with the measuring shaft, and tension displacement is measured by pulling the hook bolt through a wire. (When using a wire for the displacement measurement, consider the loss of sensitivity caused by elongation of the wire.)

Protection ratings: IP 40 equivalent



#### **External dimensions**



Туре	Α	В	С	D	Weight(g)
SDP-50ET	120	70	50	70	220
SDP-100ET	210	120	90	120	320

Unit: mm

### **Specifications**

Туре	SDP-50ET	SDP-100ET		
Capacity	50 mm	100 mm		
Rated Output	2.5 mV/V(5000×10 <sup>-6</sup> strain) ±0.2%			
Sensitivity	100×10 <sup>-6</sup> strain/mm	50×10 <sup>-6</sup> strain/mm		
Non-linearity	0.2%RO			
Spring force	6N			
Frequency response	1Hz			
Allowable temperature range	-10∼+60°C			
Input/Output resistance	350Ω			
Recommended exciting voltage	2 V or less			
Allowable exciting voltage	5V			
Supplied cable	CT6-4V10/NJ-STB (Ф6mm 0.3mm² 4-core shielded vinyl cable 10m)			

The contents of this catalog are subject to change without prior notice. The contents of this catalog are as of May 2019.



Approval Certificate **ISO9001**Design and manufacture of strain gauges, strain measuring equipment and transducers



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