

# AC Displacement Sensor (Standard)

Series AS

22 mm



## FEATURES

- Economical
- 22 mm diameter
- Stainless-steel housing
- Non-linearity error as low as 0.3 %
- Rugged construction
- Wide range from  $\pm 1$  to  $\pm 300$  mm

## OPTIONS

- Teflon bore guide (for reduced transverse play)
- Light weight core and core rod
- Spring loaded core rod
- core rod extension
- Flange
- Ball joint on housing or core rod
- 6-core cable (optional)
- Connector on housing

These AC LVDTs are the most economically priced displacement transducers. Housed in stainless steel body, they are a combination of ruggedness and high performance.

Their applications include measurement of displacement and linear position, deflection/def deformation in automated material testing machines, triaxial and consolidation testing machines for soil testing, spring testing machines and automation of textile machinery.

They can be used with many different types of signal conditioners making them very popular with many OEMs. Each transducers is supplied with its factory calibration data.

**AGMPL manufactures LVDT electronics in many variations to provide analogue output (voltage or 4 to 20 mA), Digital Display, position control and / or computerized measurement.**

## SPECIFICATIONS

Model	002AS	005AS	010AS	025AS	050AS	075AS	100AS	150AS	250AS	300AS	
Full Stroke Range ( $\pm$ mm)*	2	5	10	25	50	75	100	150	250	300	
Body Length (mm)	74	93	123	185	337	443	476	703	1118	1390	
Mech. Stroke( $\pm$ mm)	12	13	15	30	55	85	110	165	275	330	
Sensitive (mv/v/mm)	50	40	26	13	5	5	5	4	2.4	2.0	
Non-linearity error (%FSR)	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.8	
<b>Winding configuration</b>	LVDT						<b>Housing Dia</b>	22 mm			
<b>Excitation</b>	1 to 10 V rms, 2 khz						<b>Core-rod dia.</b>	6 to 6.35 mm.			
<b>Temperature Range</b>	up to 60 deg C						<b>Termination</b>	<b>Standard:</b> 4-core, screened, PVC insulated cable; 3 meter			
<b>Temp. Coeff. (% FSR)</b>	Zero: <0.01% per deg C; Sensitivity;<0.025% per deg C						<b>Optional:</b> - Connector on housing - Six-core cable, 3-meter long				

## ACCESSORIES

### LVDT Body Clamps

These Body clamps are made of reinforced fibre-Bakelite and provide excellent solution for LVDT installation. Except for 005AS and 010AS models all LVDT's require two body clamps each. Note:-All models up to  $\pm 75$ mm fsr are available with spring loaded core rods also.



### Tips for fitment to core rod for

- Hardened Ball Tip
- Ball Bearing Tip

## RELATED ELECTRONICS

- AC301** (c-1) Signal Conditioner Card
- AC302** (c-1) Signal Conditioner Card with 4...20mA Output
- AI302** (c-1) Mains operated signal conditioner box with 4-20 mA output.
- AI340** (c-1) High Resolution 4 1/2 Digit Indicator.
- AI350** (i-1) 3 1/2 Digit Display Indicator
- AI372** (i-4) Micro Controller Based LVDT Indicator with Rs232 output.
- AI731** (i-9) Microprocessor Based 16 x 2 character LCD display. Three Channel with RS232 Interface, computer Linkup and two set point
- LD612** (i-5) Load Displacement indicator for material testing

\*When supplied with any of our electronics these LVDTs can be used for twice their specified range .Ex 025AS can be use for 0-50 mm range.



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Due to continuous product development specifications are subject to change without notice.

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