

## ALPHA ENGINEERING AND SYSTEMS

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### DISPLACEMENT LEVEL TRANSMITTER-AES-DLT25

#### Description

AES displacement type Level Transmitter is designed to sense Liquid level, Interface and Specific gravity. The output of the Instrument is proportional and is designed to measure and transmit electrical signal proportional to changes in Liquid level or Specific Gravity.

#### Principal Of Operation

The AES series measures changes in Liquid Level, Specific Gravity or Interface Level and transmits a current output signal proportional to the change in the process parameter. The change in the process parameter causes a change in the displacer position, which is transferred to the Torque Tube producing a Rotary motion. This rotary motion is transferred through bellow to lever assembly that is supported by flexure strips. Magnets attached to the lever assembly move past a hall effect position sensor that converts the magnetic field signal to an electrical 4- 20mA signal.

#### Technical Specification

<b>Displacer Length</b>	: Minimum 100mm to 6 meter
<b>Input Signal</b>	: Liquid level or liquid to interface level: from 0 to 100% of Displacer length min. differential
<b>Specific Gravity</b>	: 0.3 to 1.2 (with standard displacer) & 0.2(with special displacer)
<b>Output Signal</b>	: Two wire 4-20mA dc
<b>Output Action</b>	: <b>Direct-</b> increasing input increases output or <b>Reverse-</b> increasing input decreases output
<b>Display</b>	: LCD display meter
<b>Reference Accuracy</b> (specific gravity 1.0)	: $\pm 0.1\%$ of full scale(better on request)
<b>Linearity Adjustment</b>	: 8 point through software
<b>Damping</b>	: 32 sec.
<b>Calibration Facility</b>	: By three method i.e. hand held communicator(HHC), Push button & PC
<b>Power Supply</b>	: a) 35V DC for explosion proof b) 30V DC for intrinsically safe
<b>Power Supply Effect</b>	: Negligible between 13 and 35V DC
<b>Load Resistance</b>	: 600 Ohm at 24V DC
<b>Span Adjustability</b>	: 30 to 100% of displacer length for level application using standard volume displacer
<b>Zero Adjustability</b>	: 15% of sensing element range
<b>Diagnostic of Mech.&amp; elect.</b>	: provided
<b>Cage Sensor</b>	: Cage can be furnished in a variety of end connection style to facilitate mounting on vessels
<b>Oper. Amb.Temp</b>	: 65°C , Elect. Connection : ½" NPT



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