

DISPLACER LEVEL TRANSMITTER

INTRODUCTION

The transmitter is suitable to measure liquid level, interface level, or liquid specific gravity (density). The buoyancy force from the liquid, gives weight loss to the displacer, which rotates the torque tube shaft. This rotary motion is transferred to the digital level controller, then the liquid level change finally is changed to current signals 4-20mA.

FEATURES

- Suitable for measuring liquid level, interface level, or liquid specific gravity
- Programmable 4 - 20 mA o/p with HART

ORDERING INFORMATION

Order code : 2509



SPECIFICATIONS

All specifications at ambient of 25 °c, unless specified otherwise

Terminal Enclosure	Communications protocol	Transmitting head with graphic LCD Display
Body material	Process Connection size and rating	HART
Mounting type	Transmitting head orientation	Carbon steel
Cable entry	Power supply	DN80/ 150# RF
Output	Displacer material	Top-mounted
Displacer length	Displacer length	left (Rotatable)
Material of torque tube	Material of torque tube	M20*1.5
Explosion proof	Explosion proof	12 - 30 V DC
Enclosure protection grade	Enclosure protection grade	Analog 4-20mA , 20-4 mA (reverse direction) + HART
Measurement	Measurement	S.S 316
Upper liquid	Upper liquid	0-350, 500, 750, 1000, 1100, 1200, 1500, 1800, 2000, 2500, 3000mm
Lower fluid	Lower fluid	Inconel 600
Upper gravity	Upper gravity	Ex-proof II C T6
Lower gravity	Lower gravity	IP66
Oper. pressure bar	Oper. pressure bar	Interface
Design / Normal temperature	Design / Normal temperature	Crude oil
Min. density difference	Min. density difference	Water
Accuracy	Accuracy	0.849
Linearity	Linearity	0.977
Hysteresis	Hysteresis	5.5 to 6.0
Repeatability	Repeatability	10 to 80 °C
		±0.5% FS; ±0.1FS
		±0.5% FS
		<0.2% FS
		±0.1% FS

CAT#516R0

ENQUIRIES

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