

## POSITION TRANSMITTER 2 WIRE - NON-CONTACT- INDUCTIVE

**MODEL : RMG - UPT- EX- 0501**



### DESCRIPTION

**RMG – UPT – EX- 0501** is a 2 wire Position Transmitter, widely used to transmit the position of a Control Valve in a variety of process control applications. The Contactless Inductive Position Transmitter is a 24V DC operated 2Wire System, which accepts angular movements ranging from 0° to 15° to 0° to 90° and converts into 4.00 to 20.00mA signal when suitable back lever and linkages are used. RMG-UPT-EX-0501 could be used for position transmitting applications in explosive atmosphere too.

### SALIENT FEATURES

- Flame Proof Certified
- Non-contact, Inductive type.
- Accepts a wide supply voltage range.
- Wide operating temperature range.
- Minimal effect of ambient temperature variance on accuracy.
- Encapsulated electronics - to protect from moisture, vibration and tampering of the circuitry.
- Compact in size as compared to other position transmitters available in the market.
- Has two additional trim pots for the adjustment of 'MID LOW' and 'MID HIGH' positions.
- High accuracy with minimal Linearity and Hysteresis errors.
- Reverse Polarity protected.
- High Isolation and Dielectric strength.
- Suitable for use in very low stroke as well as for very high stroke applications.
- Die - cast enclosure capable of enduring high hydro static pressure and with high ingress protection. Complies with IP 67 requirements as per IS/IEC 60947-1:2004.

### APPLICATION

- Position control, monitoring and feedback.
- Custom built operations.



**SPECIFICATION**

SI No	Characteristics	Specified value
1	Input	Angular movements ranging from 0-15° to 0-90°
2	Output	4.00 to 20.00mA
3	Input Supply Voltage Range	10V DC to 60 V DC
4	Influence of Input Supply Voltage	≤0.3% of span
5	Type of Transmitter	Two wire
6	Type of Sensor	LVDT, Non – contact, Inductive
7	Load Impedance	700 Ω at 24 V DC
8	Operating Temperature Range	-20° C to +80 ° C
9	Effect of Temperature	≤0.3% / 10°C
10	Linearity Error	≤ 0.5% of span
11	Hysteresis Error	≤ 0.5% of span
12	Zero Adjustment	± 5% of span
13	Span Adjustment	± 15% of span
14	Built in Protection	Sensor and Converter are epoxy moulded for protection from moisture, vibration and tampering of circuitry. Isolation at 500V DC ≥500MΩ. Dielectric strength ≥1.5KV rms for 1 Minute. Reverse Polarity protected. Enclosure withstands hydrostatic pressure upto 20Kg/cm <sup>2</sup> for 1 Minute.
15	<u>Enclosure Details</u>	
	a) Size	Ø104mm, Height – 122mm
	b) Weight	1 Kg approx.
	c) Material & finish	Aluminum (LM6) gravity die-cast; Enamel painted & oven baked.
	d) Enclosure Protection (Safety and Sealing)	Complies with the Ingress Protection requirements of IP 67 as per IS/IEC 60947-1:2004 standard Flame Proof for Gas group II A and IIB as per IS 2148-2004 /IEC 60079-1:2001.
	e) Electrical connection	½" NPT standard. Provision for any other cable gland available on request.

**Mounting/Linkage Accessories**



In addition , we design and manufacture POSITION TRANSMITTERS AS PER CUSTOMER REQUIREMENTS/ SPECIFICATION

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