

**POSITION TRANSMITTER**  
**2 WIRE NON – CONTACT INDUCTIVE**  
**(FOR POWER CYLINDER APPLICATIONS)**

**MODEL: RMG – PC 90**



**DESCRIPTION**

**RMG – PC 90** is a 2 wire POSITION TRANSMITTER, widely used to transmit the position of a Power Cylinder 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°-70° to 0° - 110° and converts into 4.00 to 20.00mA signal when suitable back lever and linkages are used.

**SALIENT FEATURES**

- Non-contact, Inductive type.
- Accepts a wide supply voltage range.
- High Load impedance drive capability.
- Wide Operating Temperature range.
- Compact in size as compared to many other Position Transmitters available in the market.
- Two additional trimpots to facilitate precise setting of “MID LOW” and ‘MID HIGH’ positioners. ie, at 25% and 75% of the stroke.
- High accuracy with minimal Linearity and Hysteresis errors.
- Reverse Polarity protected.
- High Isolation and Dielectric strength.
- Die - cast enclosure capable of enduring high hydro static Pressure and with high ingress protection. Complies with IP 67 requirements as per IS/IEC 60529.

**APPLICATION**

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



**SPECIFICATION**

SI No	Characteristics	Specified value
1	Input	Angular movements ranging from 0-70° to 0-110°
2	Output	4.00 to 20.00mA
3	Input Supply Voltage Range	10V DC to 60 V DC
4	Influence of Input Supply Voltage	≤0.5% of span
5	Type of Transmitter	Two wire
6	Type of Sensor	Inductive, Non contact LVDT
7	Load Impedance	700 Ω at 24 V DC
8	Operating Temperature Range	-20° C to +80 ° C
9	Effect of Temperature	≤0.3% for every 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	Converter assembly is epoxy moulded for protection from moisture, vibration and tampering of circuitry. Dielectric strength between chassis and shorted input terminals are ≥1.5KV rms for 1 Minute. Isolation at 500V DC ≥500MΩ. Reverse Polarity protected Enclosure withstands hydro-static pressure upto 10Kg/cm <sup>2</sup> for 1 Minute.
15	<u>Enclosure Details</u>	
	a) Size	Ø92mm, Height – 125mm
	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 60529 standard
	e) Electrical connection	½"NPT standard. Provision for any other cable gland available on request.

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



**Open View**



**Mounting/Linkage Accessories**

**Note 1:** Due to continuous product improvement initiatives, specification is subject to change.

**Note 2:** Images provided are for indicative purpose only. Accessories shown are not part of standard supply.

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