

## ANGULAR POSITION TRANSMITTER 2 WIRE



### RMG-APTH-2017

**Angular Position Transmitter** is a HALL EFFECT BASED 2 wire Position Transmitter, widely used to transmit the position of a Control Valve / Electric Actuator 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 180° and converts into 4.00 to 20.00mA signal when suitable linkages are used to couple the instrument shaft with the Valve / Actuator movement.

### SALIENT FEATURES

- Accepts a wide supply voltage Range
- Wide operating temperature range
- Minimal effect of ambient temperature variance on accuracy
- 16 character 2 line Alpha Numeric LCD
- Compact in size as compared to other Position Transmitters available in the market
- 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 AL enclosure, capable of enduring high hydrostatic pressure. Certified to IP 67 requirements as per IS/IEC 60529 standard for ingress protection.

### APPLICATION

- Position control, monitoring and feedback
- Custom built for automation for various processes .



SI No	Characteristics	Specified value
1	Input	Angular movements ranging from 0-180°
2	Output	4.00 to 20.00mA
3	Input Supply Voltage Range	16V 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	Hall Effect sensor
7	Load Impedance	400 Ω at 24 V DC
8	Operating Temperature Range	-25° C to +70 ° C
9	Effect of Temperature	≤0.3% / 10°C
10	“ZERO” & “SPAN” Setting	Through Push button switches
11	FORWARD & REVERSE Selection	Through Pushbutton switch
12	Linearity Error	≤ 0.5% of span
13	Hysteresis Error	≤ 0.5% of span
14	Cable Connection	3 Pin LCSO qualified MG connector
15	Built in Protection	Isolation at 500V DC ≥ 500 MΩ Dielectric strength ≥ 1.5KV rms for 1 Minute Reverse Polarity protected Enclosure withstands hydrostatic pressure upto 10Kg/cm² for 1 Minute
16	<u>Enclosure Details</u>	
	a) Size	Ø135mm, Height – 115mm
	b) Weight	<1.8 Kg approx.
	c) Material & finish	Aluminum (LM6) gravity die-cast; MRF Metal coat paint, Polyurethane finish.
	d) Enclosure Protection (Safety and Sealing)	Certified to IP 67 requirements as per IS/IEC 60529 standard for ingress protection
	e) Electrical connection	½” NPT standard. Provision for any other cable gland available on request.



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.