

# Smart Positioner YT-2501

Model	Motion Type	Acting Type	Explosion Protection	Lever Type		Conduit - Air Connection	Communication	Option	Fail Option	Cable Length
				Linear	Rotary					
YT-2501	<b>L</b> Linear	<b>S</b> Single	<b>N</b> Non-Explosion	<b>1</b> 10~40mm	<b>5</b> NAMUR	<b>1</b> G1/2 - PT1/4	<b>0</b> NONE	<b>0</b> NONE	<b>F</b> Fail Freeze	<b>1</b> 5m
	<b>R</b> Rotary	<b>D</b> Double	<b>I</b> ATEX, IECEx, KCs	<b>2</b> 20~70mm		<b>2</b> G1/2 - NPT1/4	<b>2</b> + HART	<b>1</b> +PTM	<b>S</b> Fail Safe	<b>2</b> 10m
				<b>3</b> 50~100mm		<b>3</b> G1/2 - G1/4				<b>3</b> 15m
				<b>4</b> 100~150mm		<b>4</b> M20 - NPT1/4 *1				<b>4</b> 20m
						<b>5</b> NPT1/2 - NPT1/4				

\*1 M20 adapter is attached to conduit entry

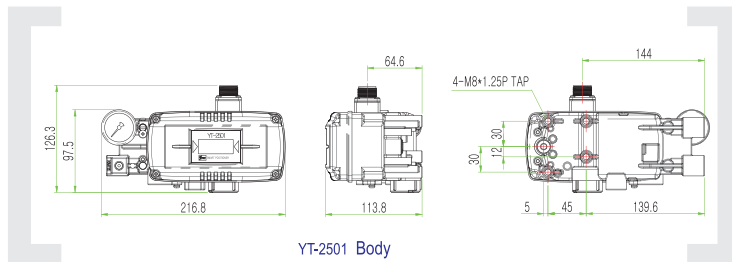


YT-2501R Sensor

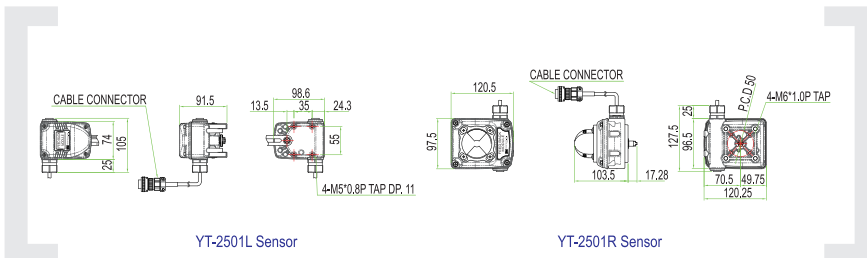


YT-2501L Sensor

YT-2501 Body



YT-2501 Body



YT-2501L Sensor

YT-2501R Sensor



Item · Type	YT-2501L	YT-2501R
Input Signal	4~20mA DC	
Supply Pressure	0.14~0.7MPa(1.4~7 bar)	
Stroke	10~150mm	0 ~ 90°
Impedance	Max.500Ω @ 20mADC	
Air Connection	PT(NPT,G)1/4	
Gauge Connection	PT(NPT)1/8	
Conduit	G(PF,NPT)1/2, M20	
Operating Temp	Sensor Operating Temp.	-40°C ~ 120°C (-40~248°F)
	Body Operating Temp.	-30°C ~ 80°C (-22~176°F)
	Explosion Temp.	-40~60°C(T5) / -40~40°C(T6)
Linearity	±0.5% F.S.	
Hysteresis	±0.5% F.S.	
Sensitivity	±0.2% F.S.	
Repeatability	±0.3% F.S.	
Air	Fail Freeze	0.01LPM (sup=0.14MPa)
Consumption	Fail Safe	6 LPM (sup=0.14MPa)
Flow	Fail Freeze	60 LPM (sup=0.14MPa)
Capacity	Fail Safe	40 LPM (sup=0.14MPa)
Output Characteristics	Linear, EQ%, Quick Open user set (16 Point)	
Material	Aluminum Diecasting	
Ingress Protection	IP66	
Explosion Protection Type	ATEX, IECEx Ex ia IIC T5/T6 Gb, Ex iaD IIC T85°C/T100°C IP6X KCs Ex ia IIC T5/T6, Ex iaD IIC T100°C/T85°C	
Communication(Optional)	HART(ver.5)	
Weight	Body	1.5kg (3.3lb)
	Sensor	0.6kg (1.3lb)   0.9kg (2.0lb)

YT-2501 Smart Positioner supplies remote functions and higher liabilities in **high temperature and vibration environment.**

- Separated feedback module
- Auto calibration
- LCD display
- Near zero air consumption level
- PD control
- Feedback signal
- HART communication
- 4 buttons for local control
- Fail freeze & safe function