Smart Positioners YT-3400 / YT-3450

Torque motor technology with communications

Design features

- **NEW** Enhanced diagnostic (including offline and online) to fully check the integrity of the system. Valve signature, advanced step tests and Partial Stroke Testing (PST) can be operated from local or remote positions. Device Description (DD) and Device Type Manager (DTM) files allow for full software compatibility.
- Visual diagnostic info to NE107 standard for a userfriendly analysis with a severity alarm scale and a clear visual identification locally on the display or remotely through HART®.
- Digital input/output configurable depending on the application and customer preferences. Multiple options are available e.g. start a pre-set PST event or receive error alarms, tailoring interaction with the device as necessary.
- Auto tuning functionality.
- Non-contact sensor for increased performance for high frequency operating valves and an enhanced lifetime.















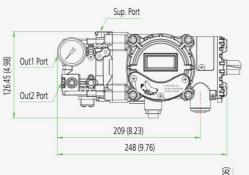


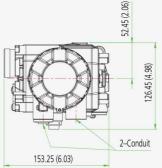
YT-3400 Aluminium Enclosure

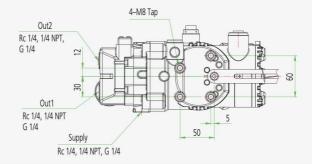


YT-3450 STS316 Enclosure





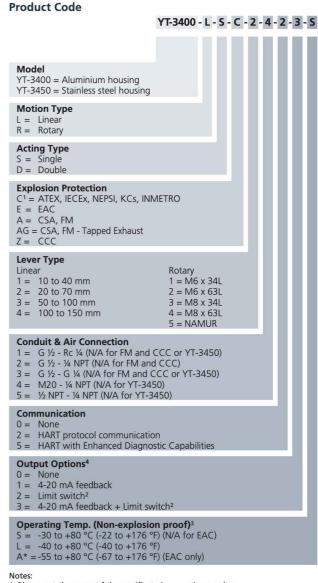




Dimensions: mm (Inches ")

Smart Positioners YT-3400 / YT-3450

Item Type		YT-3400	YT-3450
Input Signal		4-20 mA DC	
Supply Pressure		0.14 to 0.7 MPa / 1.4 to 7 bar / 20 to 102 psi	
	Linear Type	10 to 150 mm (0.4 to 6")	
Stroke	Rotary Type	55 to 110°	
Impedance		Max. 450 Ω @ 20 mA DC	
Air Connection		Rc ¼, ¼ NPT, G ¼	1/4 NPT
Gauge Connection		Rc ¹ /8, ¹ /8 NPT	1/8 NPT
Conduit		G ½, ½ NPT, M20	G 1/2
Operating Temp.	Standard Type	-30 to +85 °C (-22 to +185 °F)	
	Low Temp. Type	-40 to +85 °C (-40 to +185 °F)	
	Arctic Temp. Type*	-55 to +85 °C (-67 to +185 °F)	
	LCD Operating Temp.	with stands -55 to +85 °C (-67 to +185 °F) only visible above -40 °C (-40 °F)	
Linearity		±0.5% F.S.	
Hysteresis		±0.5% F.S.	
Sensitivity		±0.2% F.S.	
Repeatability		±0.3% F.S.	
Air Consumption		Below 2 LPM (sup = 0.14 MPa) Below 0.08 CFM (sup = 20 psi)	
Flow Capacity		70 LPM (sup = 0.14 MPa) 2.47 CFM (sup = 20 psi)	
Output Characteristics		Linear, EQ%, Quick Open, User Set (5 or 21 Points)	
Material		Aluminium Diecasting	Stainless Steel 316
Ingress Protection		NEMA 4-4X, IP66	
Explosion Protection Type		ATEX / IECEx / EAC Ex db IIC T5/T6 Ex db IIC T5/T6 Ex db IIC T5/T6 Gb Ex d IIC T5/T6 Gb Ex tD A21 IP66 T100°C/T85°C KCS Ex d IIC T5/T6 IP66 CSA Ex db IIC T5 or T6 Class I, Doins 1, AEx db IIC T5 or T6, Class I, Doins 1, Groups E, F and G; Ex tb IIC T100°C/T85°C AEx tb IIC T100°C/T85°C Type 4, 4X; IP66 FM XP/IVI/ABCD/T6 Ta= -40°C to +70°C, T5 Ta= -40°C to +80°C VI/AEx db/IIC/T6 Ta= -40°C to +70°C, T5 Ta= -40°C to +80°C DIP/II, IIVI/EFG/T6 Ta= -40°C to +70°C, T5 Ta= -40°C to +80°C DIP/II, IIVI/EFG/T6 Ta= -40°C to +70°C, T100°C Ta= -40°C to +80°C ECAS Ex db IIC T5/T6 Gb Ex tb IIIC T100°C/T85°C Db INMETRO	
		Ex db IIC T5/T6 Gb IP6	66
		Ex db IIC T5/T6 Gb IP6 Ex tb IIIC T100°C/T85°	°C Db IP66
Communication Weight	n (Option)	Ex db IIC T5/T6 Gb IP6	°C Db IP66



- Please put the name of the certificate in a purchase order.
- 2. Limit switch: DC 24V (50mA) and transistor type.3. This option is just the normal operating temperature of the product and is not related to explosion protection temperature. See certificates for explosion protection temperature.
- * Arctic temperature range for double acting devices is -52 to +85 °C (-62 to +185 °F).
- 4. Output Options 2 and 3 are not selectable when Communication option 5 is selected. Communication option 5 includes digital I/O and digital output is configurable to software limit switch.