



PAN TILT

TS-MPT-DUAL SERIES

TS-MPT-DUAL Pan-Tilt positioner series are most powerful and dynamic member of Triosys Pan-Tilt positioners family.

In DUAL Pan-Tilt series, two different motors used in the positioner unit, two different products can be controlled at different angles. Dual series also have top fixed shaft that can be used for additional positioner or other static payload up to 100 kg

FEATURES

- Have variable transmission ratio and this feature make them perfect.
- Can be used for almost all applications where needed high torque.



Payload Capacity
up to 100 kg



Accuracy
0,02°



Repeatability
0,02°



Zero backlash



TEHNICAL DATA / TS-MPT-DUAL SERIES

Product Code	TS-MPT-DUAL-1	TS-MPT-DUAL-2
Payload Capacity at Stationary Top Plate	50 kg	
Payload Capacity at Tilt Axis	80 kg (40 kg each side)	
Rated Torque at Tilt Axis	75 Nm	
Power Consumption		
Max. Power Consumption	450 W	350 W
Standby Power Consumption	35 W	
Heater Power	40 W	
Operating Voltage Range	44-52 V	
Pan		
Range of travel *	n × 360° (Continuous Rotation)	
Max. Speed	48°/s	
Min. Speed	0.005°/s	
Tilt		
Range of travel *	180° (+90°/-90°)	
Max. Speed	48 °/s	
Min. Speed	0.005°/s	
Movement of Tilt Arms	Independent Side Arms	Interdependent Side Arms
Position Accuracy and Repeatability		
Position Accuracy	0.05°	
Position Repeatability	0.05°	
Backlash	None	
Rotation Limits		
Software Limits	Available	
Mechanical Limits	Available at Tilt Axis	
Encoder Type and Position Feedback		
Encoder Type *	Absolute Encoder	
Position Feedback	0.005°	
Operating Temperature		
Working Temperature	-32°C to +55°C	
Storage Temperature	-40°C to +60°C	
Drive Systems		
Drive System (Pan)	BLDC Motor	
Drive System (Tilt)	BLDC Motor	
Construction		
Exterior Finish	Powder Coat Black (Default), Special Finishes Available	
Weight ***	60 kg	
Dimensions ***	340.7x375x222 mm	
Ambient Conditions and EMI/EMC Compatibility		
Electromagnetic Compatibility	MIL-STD-461G (CE102, CS101, CS114, CS115, CS116, CS118, RE102 and RS103)	
Min. Operating and Storage Temperature	MIL-STD-810G, Method 502.6 Procedure II and Procedure I	
Max Operating and Storage Temperature	MIL-STD-810G, Method 501.6 Procedure II and Procedure I	
Thermal Shock	MIL-STD 810G, Method 503.6 Procedure I-C	
Moisture Resistance	MIL-STD 810G, Method 507.6 Procedure II	
Rain Resistance	MIL-STD-810G, Method 506.6 Procedure I	
Dust and Sand Resistance	MIL-STD-810G, Method 510.6 Procedure I and Procedure II	
Vibration Compatibility	MIL-STD-810G, Method 514.7 Procedure I	
Shock Compatibility	MIL-STD-810G Method 516.6 Procedure IV	
Icing and Freezing Rain Resistance	MIL-STD-810G, Method 521.3 Procedure I	
Protection / IP rating	IP67	

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Control of Positioner Unit	
Command and Control	GUI-Joysitck-Software
Protocol	TS-MPT Protocol and Pelco-D
Power Outputs to Payload *	
24 VDC - user on/off switchable	Optional
12 VDC - user on/off switchable	Optional
5 VDC - user on/off switchable	Optional
Instantly Monitoring	
Power On and Run Time Monitoring	Available
Voltage Monitoring	Available
Current Monitoring	Available
Communication Interfaces to Payload *	
Serial	RS232, RS422, RS485 (2 Channel Configurable)
TTL	1 Channel
IP	1 Channel Gigabit Ethernet
Communication Interfaces to Pantilt**	
Serial	RS232 or RS422/RS485
IP	Optional
Connectors *	
Main Connector	D38999/20WD35PNx2
Stationary Top Plate	D38999/20WD35SN
Tilt Connector	D38999/20WD35SN x2

* If you have other requirements or need further assistance, please reach out to us.

** Configuration is available for particular lines including RF, SDI, HD-SDI, Fiber, etc.

*** The specified values apply to top mount setups.

Please note: Accessories such as cables and power supplies are not included in the package.