

PAN TILT TS-MPT D SERIES

D Series Pan Tilt TS-MPT-D engineered for precision, durability, and versatility, this advanced system is designed to meet the rigorous demands of various industries.

- High Payload Capacity: 50 Nm for handling substantial equipment.
- Precision Movement: 0.02° accuracy and repeatability for high-precision tasks.
- Wide Range of Motion: Full 360° pan range and ±90° tilt range.

FEATURES

- Robust and compact design.
- High torque and performance.
- Precise positioning.
- High duty cycles.
- Suitable for fixed and mobile environments.
- 100% CNC Machined from high strength 6000 series aluminium and stainless steel.
- Weather Resistance: Complies with IP67 standards, ensuring optimal performance in harsh environmental conditions.
- MIL-STD Compliant: Built to withstand electromagnetic interference, thermal shock, vibration, moisture, rain, dust, and sand.

O kg

Payload Capacity up to 30 kg



Rated Torque at Tilt Axis 50 Nm



Position Accuracy 0,02°



Position Repeatability 0,02°



Zero backlash



TECHNICAL DATA / TS-MPT-D SERIES

Product Code	TS-MPT-D-1	TS-MPT-D-2
Payload Capacity	8 kg	30 kg
Rated Torque at Tilt Axis	7 Nm	50 Nm
	Power Consumption	
Max. Power Consumption	100 W	120 W
Standby Power Consumption	20 W	20 W
Operating Voltage Range *	20-32 V	20-32 V
Pan		
Range of travel *	n × 360° (Continuous Rotation)	
Max. Speed	180 °/s	60°/s
Min. Speed	0.005°/s	0.005°/s
	Tilt	
Range of travel *	120° (+90°/-30°)	
Max. Speed	60°/s	60°/s
Min. Speed	0.005°/s	0.005°/s
Posi	tion Accuracy and Repeatability	
Position Accuracy	0.02°	
Position Repeatability	0.02°	
Backlash	None	
	Rotation Limits	
Software Limits	Available	Available
	ncoder Type and Position Feedback	
Encoder Type *	Absolute	
Position Feedback	0.005°	0.005°
Working Temperature	Operating 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	
Brake	Magnetic Brake	
	Construction	
Exterior Finish	Powder Coat Black (Default), Special Finishes Available	
Weight	4,3 kg	5.6 kg
Dimensions	180x232x182 mm	184x247x185 mm
Payload Mounting Type	Top and Side Mount	
Ambient C	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	



TECHNICAL DATA / TS-MPT-D SERIES

Control of Positioner Unit		
Command and Control	GUI-Joysitck-Software	
Protocol	TS-MPT Protocol and Pelco-D	
Power Outputs to Payload *		
24 VDC - 2.4A	Optional	
12 VDC - 2.4A	Optional	
5 VDC - 2.4A	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)	
тть	1 Channel	
IP	1 Channel Gigabit Ethernet	
	Communication Interfaces to Pantilt**	
Serial	RS232 or RS422/RS485	
IP	Optional	
Connectors *		
Main Connector	D38999/20WD35PN	
Payload Connector	D38999/20WD35SN	

* 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.

