

MPT-500

PAN & TILT POSITIONER

The MPT Positioner Series leverages the strength and reliability of Quickset legacy products and is improved with an enhanced electronics package offering new advantages to mission critical applications.

MPT Positioners are equipped with an integrated Health and Usage Monitoring System (HUMS). This provides intelligence to users regarding the condition of payloads, allowing for preventative maintenance to extend the life of critical equipment.



An embedded web server enables easy discovery and control of all positioners and integrated components on a network thereby eliminating the need for 3rd party software. Expanded velocity control offers the MPT finer resolution of speed and acceleration control, ultimately improving tracking and scaling applications. Users will enjoy the capacity of multiple configurable communication ports for convenient payload integration and communication.



KEY FEATURES

- Payloads up to 1260 lbs, tilt torque up to 500 lb-ft. (678 Nm)
- Welded aluminum housing and hardened steel gearing for durability in harsh environment
- Embedded web server
- Two GigE pass-through wiring paths direct to payload
- Health and usage monitoring
- Serial (up to 99Hz) or Serial over IP control
- Multiple payload communication ports: 4 configurable serial, 2 TTL and 1 IP port
- 10-bit linear response velocity control
- GPS capability
- Marine configuration that meets IP67 standards

MPT-500 RF PAN & TILT POSITIONER: SPECIFICATIONS

APPLICABLE MODEL: 8-DA166



PERFORMANCE	
Payload Ports	2
Payload Capacity	1260 lbs. (571.5 kg)
Pan Range Of Motion	Non-Continuous Rotation (+/- 217.5°)
Pan Speed Range	0.001º - 20.0º/SEC
Pan Repeatability	0.05°
Tilt Payload Torque	500 ft-lbs. (677.9 NM)
Tilt Range Of Motion	180° (±90°)
Tilt Speed Range	0.001° - 4.0 °/SEC
Tilt Repeatability	0.05°
Positioning Resolution	0.01°
Position Feedback	Incremental Magnetic Encoder on Each Axis of Motion
Hard Limits (Mechanically ADJ.)	Hard Limit Switches: Both Axes Motor Disable Limit Switches: Both Axes
Soft Limits (Software ADJ.)	Both Axes

COMMUNICATION			
Communication Interface (For Positioner Control)	Base	RS232/422/485 Ethernet 10/100 Base-T	
	Port #1	RS232/422/485	
	Port #2	RS232/422	
Communication Method To Payload		Direct Pass-Through Connection Virtual Pass-Through Using IP Connection Tunnel Using Serial / IP Connection	
Protocol		Quickset Ptz Protocol Pelco D (Limited)	
Ethernet Pass Through Wiring	Port #1	1000 Mb/S	
	Port #2	1000 Mb/S	
Video Pass Through Wiring	Port #1	HD-SDI Video	
	Port #2	HD-SDI Video	
Radio Frequency (RF) Pass Through Wiring		None	

POWER			
Operating Voltage		48 VDC (+4, -0)	
System Power		Idle (Heaters Off): 0.5 A Continuous (Heaters Off): 6.3 A Peak (Heaters Off): 7.7 A Continuous (Heaters On): 9.0 A Peak (Heaters On): 10.4 A In-Rush: 28.0 A < 15.0 Milliseconds	
Available Payload Power From Positioner Control Board (Payload Ports)		Payload Power Connection = 3 Amps Each (Max.) (Each Power Connection from Positioner Control Board is Rated for a Maximum of 3 Amps at Each Regulated Voltage) Voltage Regulated Power (5v, 12v, 24v) = 5 Amps Each (Max.) Total Board Power = 8 Amps Max. (All Combined Payloads)	
Analog Lens Control (Regulated By MPT Board)	Port #1	Focus Control - 12vdc, 1Amp (Maximum) Zoom Control - 12Vdc, 1Amp (Maximum)	
	Port #2	Focus Control - 12vdc, 1Amp (Maximum) Zoom Control - 12Vdc, 1Amp (Maximum)	
Direct Pass-Through Payload Power (Port #1 & Port #2)		Two Circuits (Four Conductor) 10.0 Amps Each (Max.)	

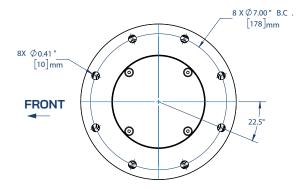
PHYSICAL PROPERTIES		
Weight (W/O Payload)	180 Lbs. (81.7 kg)	
Dimensions	23.53" W x 19.33" H x 13.01" D	
Drive System	Stepper Motors, Hardened Steel Worm Gear Drive	
Material	Aluminum 6061-T6 Housing, Stainless Steel Hardware, Permanently Sealed Radial Ball Bearings	
Exterior Finish	Powder Coat Paint (Std.) Customer Specified Color (Carc Available)	

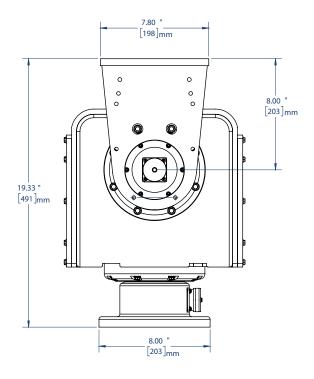
ENVIRONMENTAL	
Operational Temperature	-32°C To +55°C (100% Rh)
Storage Temperature	-40°C To +70°C
Health & Usage Monitoring Features	Duty Cycle Reading Odometer - Both Axis (Total Number of Degrees Traveled) Cpu Temperature (Positioner Control Board) Voltage Measurement (I/P, 24v, 12v, 5v) Current Measurement (24v, 12v, 5v Supply)
Environmental Classification	IP67

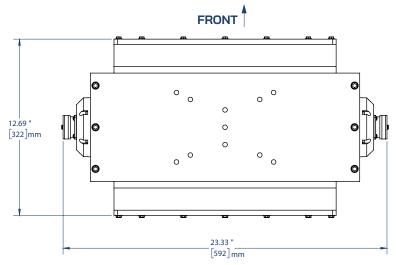
MPT-500 RF PAN & TILT POSITIONER: DIMENSIONS

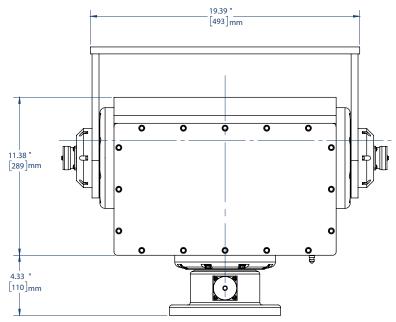
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MPT-500 1025

