

# PAN & TILT UNITS

## MPT W66 SERIES



The MPT W66 Series Pan & Tilt Unit is designed to perform positioning applications of various sensor units.

It is designed for payloads up to 6 Kg.

MPT W66 Pan & Tilt Units, designed according to military standards and having compact structure, are resistant to all kinds of harsh conditions.

### FEATURES

- Lightweight, robust and compact design.
- High torque.
- Self locking.
- High duty cycles.
- Suitable for fixed and mobile environments.
- Spirit level for easy leveling.
- 100% CNC Machined from high strength 6000 series aluminium and stainless steel.



<b>Payload Capacity</b>		Max. 6 Kg
<b>Rated Load Torque</b>		8 Nm
<b>Power Consumption</b>	Max. (Pan-Tilt in Motion)	40 W
	Standby	1 W
	Heater Power	50 W
	Operating Voltage Range	18-32 V
<b>Pan</b>	Range of travel	n × 360° (Continuous Rotation)
	Speed	Max. 6 rpm (36°/s)
<b>Tilt</b>	Range of travel	135° (+90°/-45°)
	Speed	Max. 6 rpm (36°/s)
<b>Accuracy</b>		0.05°
<b>Repeatability</b>		0.02°
<b>Backlash</b>		None
<b>Rotation Limits</b>	Software Limits	Available
	Mechanical Limits	Available
<b>Position Feedback</b>		0.0048° (Magnetic Encoder)
<b>Protection / IP rating</b>		IP67
<b>Operating Temperature</b>	With internal heater	-32°C to +55°C
	Without heater	-10°C to +55°C
<b>Storage Temperature</b>		-40°C to +60°C
<b>Construction</b>	Drive System (Pan and Tilt)	Stepper Motor
	Exterior Finish	Powder Coat Black (Default), Special Finishes Available
	Weight	Max. 3.6 Kg
	Dimensions	189.8x168.3x153 mm (7.47x6.63x6.02 inch)
<b>Ambient Conditions and EMI/EMC Compatibility</b>	Electromagnetic Compatibility	MIL-STD-461E
	Vibration Compatibility	MIL-STD-810G Method 514.6
	Maximum Operating Temperature	MIL-STD-810G Method 501.5
	Minimum Operating Temperature	MIL-STD-810G Method 502.5
	Moisture Resistance	MIL-STD-810G Method 507.5
<b>Command and Control</b>		GUI - Joystick - Software
<b>Protocol</b>		TS-MPT Protocol
<b>Power Outputs to Payload</b>	24 VDC	Optional 2A (8A on Slipping)
	12 VDC	Optional 2A
	5 VDC	Optional 2A
<b>Instantly Monitoring</b>	Power On and Run Time Monitoring	Available
	Voltage Monitoring	Available
	Current Monitoring	Available
<b>Communication Interfaces to Payload</b>	Serial	RS232, RS422, RS485
	TTL	1 Channel
	IP	1 Channel
<b>Input Connector</b>		D38999 / 20WD35PN and RF Connector
<b>Output Connector</b>		D38999 / 20WD35SN and RF Connector