



QPT-130 Series Pan & Tilt Positioners

The QPT-130 Series of Pan & Tilt Positioners is designed for a wide variety of applications. They are rugged and durable enough for virtually any environment. The QPT-130 can handle payloads up to 130 lb-ft making it suitable for a wide range of sensors. Multiple models are available to fit your needs. Integrated Control (IC) units can communicate via networked PC or separate controller. Analog units are cost-effective solutions for simple command and control without a PC.

Available Features

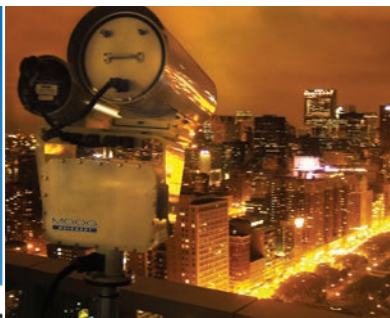
- Payloads up to 130 lb-ft
- Analog driven or Digital Serial Integrated Controller (IC) models
- Internal wire table top for pass-through or IC sensor wiring on certain models
- Fixed, Inverted or Mobile Installations
- Mil-Spec Connectors
- Tough metal housing and gearing for durability in harsh environments

- RF pass-through connectivity (RF rotary joint, 1-3 channels)
- Thermostatically controlled heaters standard

Sensor Integration

- Multi-Spectrum Cameras (Visible / NIR / SWIR)
- IR and Visible Illuminators
- Laser Range Finders
- Communication Antennas
- Acoustic Devices

QUICKSET



Serial IP Features

Microprocessor control

Software controlled with status feedback

Serial Communication: RS232 / 422 / 485 and IP

Control Protocols: Moog QuickSet and Pelco D

2 programmable tours and 32 presets

Analog Features

Simple command and control with one controller for one positioner

Azimuth / Elevation position feedback output

Power supply integrated into controller

Standard Performance

Load Capacity:	130 lb-ft (176 Nm) maximum
Operating Voltage Range:	24VDC (±4VDC)
Pan-Axis Range:	360° continuous rotation (slip ring) • 435° (±217.5°) (non-slip ring)
Pan-Axis Speed:	1° - 8°/sec
Tilt-Axis Range:	180° (±90°)
Tilt-Axis Speed:	1° - 4.5°
Internal Heater:	Thermostatically controlled 0°C (32°F) ON • 1.7°C (35°F) OFF
Operating Temperature:	Without Heater: -15°C to 55°C (5°F to 131°F) • With Heater: -30°C to 55°C (-22°F to 131°F)
Rotational Limits:	Fixed tilt hard limit, adjustable soft limits on both axes
Feedback:	Resolvers (0.01° readout)
Repeatability:	0.25°
Duty Cycle:	20%
Motor Type / Drive:	DC Brush
Communication to Pan & Tilt:	RS232 / 422 / 485, IP Ethernet: 10/100 Base-T
Communication to Sensors:	RS232 / 422, Ethernet Pass-Through
Control Protocol:	Moog QuickSet or Pelco D
Connector Specifications:	Mil-Spec grade used on all configurations
Materials:	Housing 6061-T6 Aluminum, stainless steel hardware, permanently sealed radial ball bearings
Finish / Color:	White powder coat paint over alodined chromate for corrosion resistance standard. Other colors and CARC available upon request
Weight:	22 lbs (10 kg) to 36 lbs (16.3 kg) depending on model
Dimensions:	See page 4
Test Cable and Software:	6 ft test cable and software included with all IC and Sentry configurations

Note: Test software compatible with Windows-95 SP2, 98, ME, 2000 and XP version. Not compatible with NT. Moog control protocol documentation supplied. Different models may vary.



Standard Housing

Serial / IP Configuration

	DC Brush-Type Motor Configuration
	24 VDC
Pan Speed Range (deg / sec):	1° – 8°
Tilt Speed Range (deg / sec):	1° – 4.5°
Weight:	44 lbs (19.96 kg)

Note: Speed ranges dependent on model, weight and payload configuration – contact factory for details

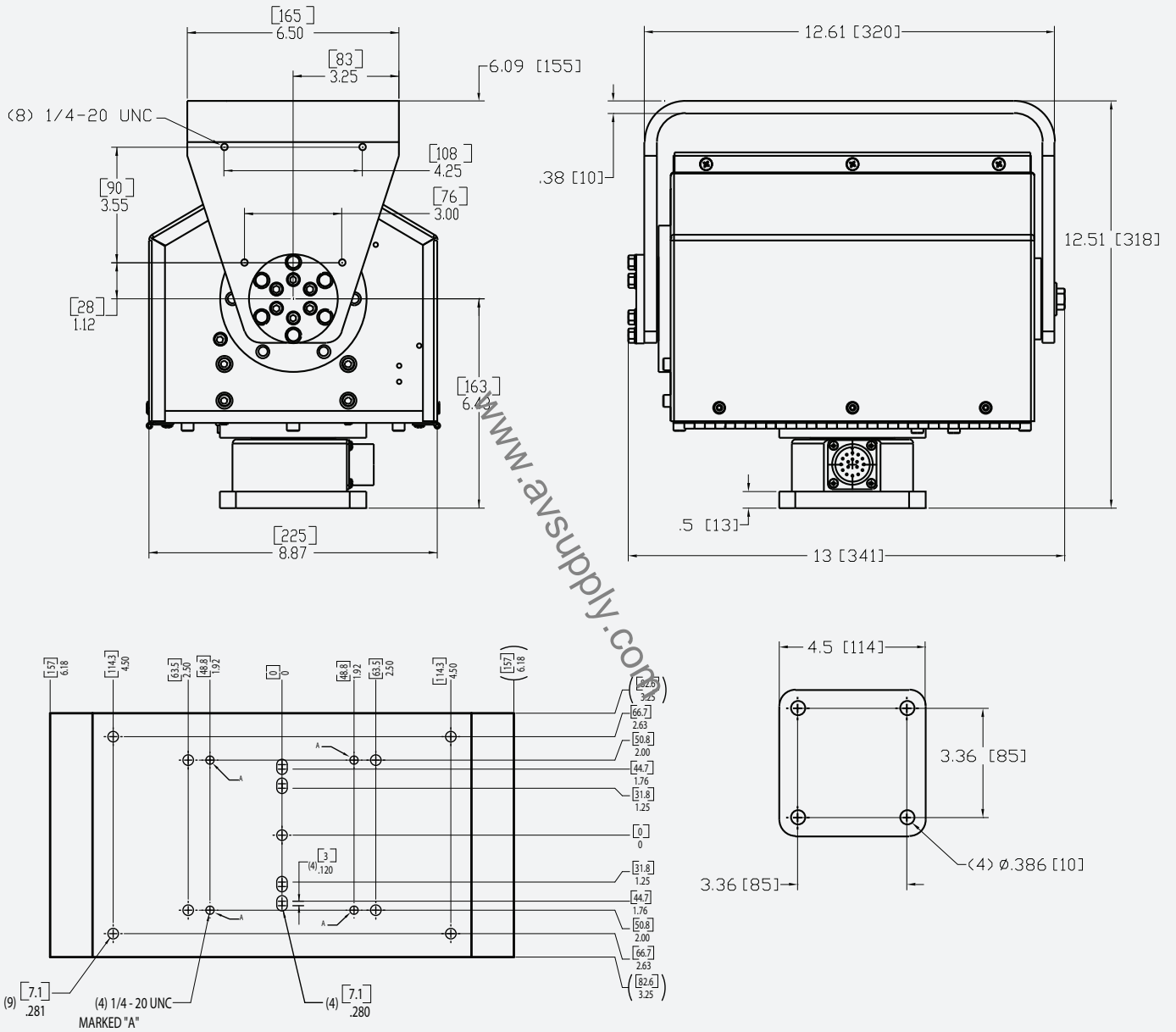
Analog Configuration

	DC Brush-Type Motor Configuration
	115 VDC
Pan Speed Range (deg / sec):	0.5° – 8.5°
Tilt Speed Range (deg / sec):	0.1° – 3°
Weight:	44 lbs (19.96 kg)

Note: Speed ranges dependent on model, weight and payload configuration – contact factory for details

Dimensions / Architectural Drawings

Standard Housing



Dimensions are in Inches [mm]

MOOG

Sensor and Surveillance Systems

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