

Graflex Sensor Positioners – PT75

The ***Graflex Incorporated Sensor Positioners*** offer the reliability and features that allow you to rest easy at a price that gives our competition nightmares.



PT75 Highlights

- ***Mil 810 Tested & Certified***
- ***75 Pound Payload Capacity***
- ***Very High Resolution, Accuracy and Repeatability***
- ***Extremely Rugged Design***
- ***Compact Design***
- ***No Routine Maintenance Required***
- ***Exceptional Travel Velocity***
- ***GUI Controlled***

GRAFLEX Incorporated



Always on Target

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PT75 Technical Specifications

MECHANICAL

Dimensions	7.8" (w) x 11.1" (h) x 6.0" (d)
Weight	33 Lbs
Base Dim's	6.0" Diameter
Base Mounting	Contact Factory
Construction	Aluminum and Stainless Steel
Color	Anodized or Painted & Stainless Steel
Payload Capacity	75 Lbs - Balanced
Drive Motor	Brush DC Servo
Travel Range	360° Continuous @ Azimuth 5° thru 270° Fully Adjustable @ Elevation
Holding Brake	Worm Gear – Not Required
Tilt Limits:	Electrical, Mechanical, Software
Backlash	None

COMMUNICATION

Interface	RS-422 or RS-232
Motor Controller	Microprocessor based
Sensor Pass-Thru	30 Ea – 2 Amp, 2 Ea - Coax (Heater Line NOT Included Above)

ELECTRICAL

Voltage	24Vdc (Nominal)
Power	Contact Factory
Heater	Optional – Pre-wired Std

OPERATIONAL

Travel Velocity	60°/Sec.- .005°/Sec.
Resolution	.0002°
Repeatability	.002°
Accuracy	.0055°
Payload Inertia	2.0 ft-lb-sec ² (Az.), 1.8 ft-lb-sec ² (Elev.)
Feedback:	21 Bit Encoder (Azimuth & Elevation)

OPTIONS

Dynapel Image Stabilization Unit
 Payload Mounts
 Heaters (Heater Blanket)
 Shock Mount (Sorbothane Engineered)
 High Capacity Slip Rings
 Various Coating (Finish) Systems

ENVIRONMENTAL(MIL 810E)

Operating Temperature: 501.00 Procedure II (1 Cycle @ 3 Hours Each -31.7° C and 51.7° C)
 Note: These Ranges Require Heater Blanket

Humidity: 507.00 Procedure III (2 Cycles of 24 Hours @ 50° C and 100% Humidity)

Salt Fog: 509.00 Procedure I (1 Cycle of 24 Hours @ 5% Sodium Chloride)

Dust & Wind: 510.00 Procedure I (1 Cycle of 6 Hours)

Vibration (514.4):	<u>Axis</u>	<u>Frequency (Hz)</u>	<u>Amplitude</u>	30 Min/Axis
	All	2.7 to 5.5	1.0" DA	
		5.5 to 38	± 1.5g	
		38 to 50	.002" DA	
		50 to 200	± 2.5g	

Shock (516.4): 6± .6g's, 11.0 ± 1.1 ms half sine wave applied in each direction of 3 mutually perpendicular axis. 20 ± 2.0 g's, 11.0 ± 1.1 ms half sine wave applied in each direction of 3 mutually perpendicular axis with Optional Shock Mount.

