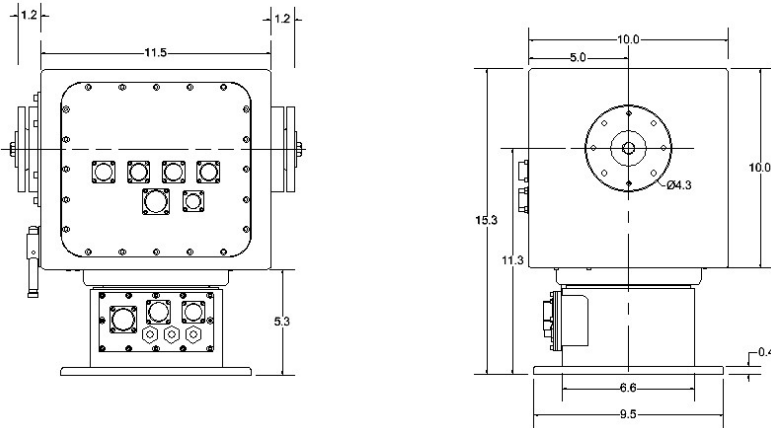


GRAFLEX....Sensor Positioners



PT150 Highlights

- **Mil 810 Tested**
- **150 Pound Payload Capacity**
- **Very High Resolution, Accuracy and Repeatability**
- **RS Sensor Interface**
- **Two Axis Stabilization**
- **Extremely Rugged Design**
- **No Routine Maintenance Required**
- **Exceptional Travel Velocity**
- **Compact Design**
- **GUI or RS- Controlled**

MECHANICAL

Dimensions	14.0" (w) x 15.0" (h) x 10.0" (d)
Weight	65 Lbs
Base Dim's	9.5" Diameter (18.0" w/Shock Mount)
Base Mounting	Contact Factory
Construction	Aluminum and Stainless Steel
Color	Anodized or Painted & Stainless Steel
Payload Capacity	150 Lbs - Balanced
Drive Motor	Brush DC Servo
Travel Range	360° Continuous @ Azimuth 5° thru 270° Fully Adjustable @ Elevation
Holding Brake	Mechanical w/Electrical Interlock
Tilt Limits:	Electrical, Mechanical, Software
Backlash	None

COMMUNICATION

Interface	RS-422 or RS-232
Motor Controller	Microprocessor based
Sensor Pass-Thru	16 Ea - 2 Amp, 8 Ea - 5 Amp, 3 Ea - Coax (Gyro & 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	.00275°
Repeatability	.0055°
Accuracy	.0055°
Payload Inertia	8.6 ft-lb-sec ² (Az.), 4.7 ft-lb-sec ² (Elev.)
Feedback:	17 Bit Gurley Encoder (Azimuth & Elevation)

OPTIONS

Coatings (Finish)
Payload Mount
Heaters
Stabilization - MEMS Gyro (Two-Axis)
Shock Mount

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):	Axis	Frequency (Hz)	Amplitude	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.