

# *Graflex Sensor Positioners – PT90E*

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



## **PT90E Highlights**

- **90 Pound Payload Capacity**
- **Economical Price**
- **Rugged Design**
- **No Routine Maintenance Required**
- **Excellent Resolution, Accuracy and Repeatability**

***GRAFLEX Incorporated***



**Always on Target**

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# PT90E Technical Specifications

## MECHANICAL

Dimensions	10.25" (w) x 10.0" (h) x 8.0" (d)
Weight	~ 27 Lbs
Base Dim's	7.5" Diameter
Base Mounting	Contact Factory
Construction	Aluminum and Steel
Color	Anodized or Painted
Payload Capacity	90 Lbs – Balanced/75 Lbs Over the Top
Drive Motor	Brushed DC
Travel Range	360° Continuous @ Azimuth + 60° To - 60° @ Elevation (Balanced) + 45° To - 45° @ Elevation (Over the Top)
Tilt Limits:	Electrical

## ELECTRICAL

Voltage	+24Vdc (Nominal)
Power	Contact Factory
Heater	Optional

## OPERATIONAL

Travel Velocity	30°/Sec. - .1°/Sec. (Pan) ~10°/Sec. - .1°/Sec. (Tilt)
Repeatability	.088°
Resolution	.044° (13 Bits)
Feedback:	11 Bit Incremental Encoder

## COMMUNICATION

Interface	RS-422 or RS-232
Motor Controller	Microprocessor based

## OPTIONS

Coatings (Finish)
Payload Mount
Heaters
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 (Otherwise 0-70° C)

Humidity: NA

Salt Fog: NA

Dust & Wind: NA

Vibration (514.4): NA – All fasteners

Shock (516.4): 5± .5g's, 11.0 ± 1.1 ms half sine wave applied in each direction of 3 mutually perpendicular axis. 10 ± 1.0 g's, 11.0 ± 1.1 ms half sine wave applied in each direction of 3 mutually perpendicular axis with Optional Shock Mount.

