



# PT570P/PT570-24P Pan/Tilt

## OUTDOOR, MEDIUM DUTY

### Product Features

- Easily Serviced
- Inverted Operation
- External Limit Stops
- Outdoor Applications
- Adjustable Worm-Gear Final Drive
- 120 VAC or 24 VAC Operation
- Capable of Auto/Random Scan Operation when Used with Appropriate Control
- Maximum Load 40 Pounds (18.14 kg)

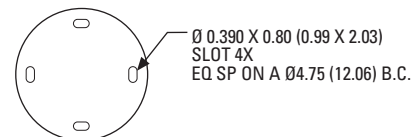
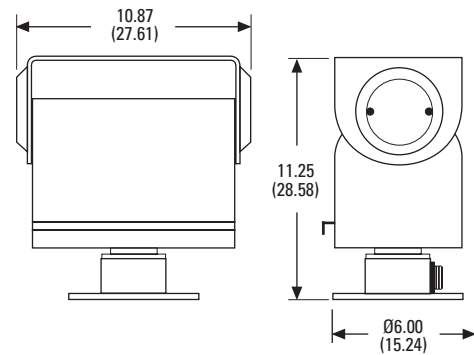
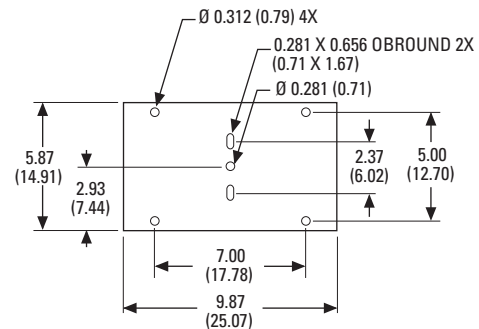


The **PT570P** and the **PT570-24P** are medium duty pan/tilts designed for outdoor applications. Both units feature rugged worm-gear final drives to minimize backlash and prevent wind drift. The drives are fully adjustable for wear.

Control voltages are 120 VAC for the **PT570P** and 24 VAC for the **PT570-24P**. Construction is of aluminum, and the units are completely sealed for all-weather use. The **PT570P** and **PT570-24P** will accept a maximum load of 40 pounds (18.14 kg) and are recommended for use with our EH4700 Series environmental enclosures.

Optional blanket heater available to allow operation to -50°F (-45°C).

Over twenty years of quality design and manufacturing have resulted in pan/tilts which provide long, reliable operation.



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.



# TECHNICAL SPECIFICATIONS

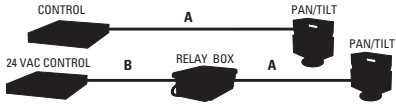
## MODELS

|              |  |
|--------------|--|
| PT570P       | Medium duty pan/tilt, 120 VAC              |
| PT570P/PP    | Medium duty pan/tilt with presets, 120 VAC |
| PT570-24P    | Medium duty pan/tilt, 24 VAC               |
| PT570-24P/PP | Medium duty pan/tilt with presets, 24 VAC  |

## ELECTRICAL

|                        |  | PT570P               | PT570-24P           |
|------------------------|--|----------------------|---------------------|
| Input Voltage          |  | 120 VAC,<br>50/60 Hz | 24 VAC,<br>50/60 Hz |
| Power Requirements     | (Running)  | Pan                  | 0.18A (21.6 VA)     |
|                        |  | Tilt                 | 0.18A (21.6 VA)     |
|                        | (Starting)   | Pan                  | 0.27A (32.4 VA)     |
|                        |  | Tilt                 | 0.27A (32.4 VA)     |
| Connectors             | AMP CPC type (mate supplied)   |                      |                     |
| Motors                 | Two-phase induction type, instantaneous reversing  |                      |                     |
| Limit Switches         | 5A each (pan and tilt); external adjustment  |                      |                     |
| Conductor Requirements | 6 or 7, unshielded (functions: left, right, up, down, motor common, safety ground). (No additional conductors for auto scan when used with solid-state control. PP option requires 4 additional conductors.) |                      |                     |

### Maximum Operating Distances



|                                  | Cable Size                    | Maximum Distance   |                     |
|----------------------------------|-------------------------------|--------------------|---------------------|
|                                  |                               | A                  | B                   |
| <b>PT570P</b><br>6 Conductors    | 20 AWG (0.5 mm <sup>2</sup> ) | 1,045 ft (319 m)   | 5,800 ft (1,767 m)  |
|                                  | 18 AWG (1.0 mm <sup>2</sup> ) | 1,665 ft (507 m)   | 8,250 ft (2,515 m)  |
|                                  | 16 AWG (1.5 mm <sup>2</sup> ) | 2,640 ft (805 m)   | 13,000 ft (3,962 m) |
| 7* Conductors                    | 20 AWG (0.5 mm <sup>2</sup> ) | 2,080 ft (634 m)   |                     |
|                                  | 18 AWG (1.0 mm <sup>2</sup> ) | 3,330 ft (1,015 m) |                     |
|                                  | 16 AWG (1.5 mm <sup>2</sup> ) | 5,285 ft (1,611 m) |                     |
| <b>PT570-24P</b><br>6 Conductors | 20 AWG (0.5 mm <sup>2</sup> ) | 40 ft (12 m)       |                     |
|                                  | 18 AWG (1.0 mm <sup>2</sup> ) | 65 ft (20 m)       |                     |
|                                  | 16 AWG (1.5 mm <sup>2</sup> ) | 110 ft (34 m)      |                     |
| 7* Conductors                    | 20 AWG (0.5 mm <sup>2</sup> ) | 85 ft (26 m)       |                     |
|                                  | 18 AWG (1.0 mm <sup>2</sup> ) | 135 ft (41 m)      |                     |
|                                  | 16 AWG (1.5 mm <sup>2</sup> ) | 220 ft (67 m)      |                     |

\*Using 2 wire motor common

- Notes:
- Distance (A) from control to pan/tilt is the same as distance from relay box to pan/tilt.
  - Maximum operating distance can be extended by using a low voltage control (24 VAC) and a relay box. Distance (B) from control to relay box is the same for all applications.
  - Distances are calculated with both motors (pan and tilt) running and assuming a 10% voltage drop in the cable.

## MECHANICAL

|              |  |
|--------------|--|
| Pan          | 0-355° movement in horizontal plane  |
| Speed        | 6°/sec ±1°   |
| Torque       | 10 ft-lb with specified voltage  |
| Tilt         | ±90° movement in vertical plane  |
| Speed        | 3°/sec ±0.5°   |
| Torque       | 20 ft-lb with specified voltage  |
| Maximum Load | 40 lb (18.1418.14 kg) at 5" (12.7 cm) from tilt table surface to center of gravity |
| Gearing      | Adjustable worm-gear final drive to prevent drift and minimize backlash            |
| Bearings     |  |
| Pan          | Heavy-duty ball bearings   |
| Tilt         | Oilite bronze bushing  |
| Braking      | Mechanical friction-type   |
| Duty Cycle   | 50% duty cycle; 30 minute rating   |

## GENERAL

|                 |  |
|-----------------|--|
| Construction    | Aluminum plate; all internal parts corrosion protected |
| Finish          | Gray polyester powder coat                             |
| Environment     | Outdoor;<br>-10° to 120°F (-23° to 49°C)               |
| Unit Weight     | 22 lb (9.9 kg)   |
| Shipping Weight | 25 lb (11.5 kg)  |

## CERTIFICATIONS/RATINGS

- CE, Class B (PT570-24P, PT570-24P/PP)
- UL Listed
- Meets NEMA Type 3R standards

## OPTIONS

|        |   |
|--------|---|
| HB/570 | Blanket heater in cover, 75W.<br>Allows operation to -50°F (-45°C).<br>120 VAC, 50/60 Hz. |
|--------|---|

## RECOMMENDED CONTROLS

|                    |  |
|--------------------|--|
| Coaxtron or Matrix | See individual specification sheets for information.   |
| MPT24DT            | Desktop control for 24 VAC pan/tilt.   |
| MPTAZ Series       | Desktop pan/tilt and zoom lens control with auto/random scan.                                    |
| RB115, RB24        | Relay box for extended low voltage operation. Extends operating distance (control to relay box). |

## RECOMMENDED ENCLOSURE

|               |                         |
|---------------|-------------------------|
| EH4700 Series | Environmental enclosure |
|---------------|-------------------------|

## RECOMMENDED MOUNTS

|                |   |
|----------------|---|
| PA2000         | Adapter plate; required when using WM2000             |
| PM2000, PM2010 | Ceiling/pedestal mount; maximum load 125 lb (56.7 kg) |
| ST1            | Support strut; use with WM2000/PM2000/PM2010          |
| WM2000         | Wall mount; maximum load 75 lb (34 kg)                |



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