

PRODUCT SPECIFICATION

PT570P/PT570-24P Pan/Tilt OUTDOOR, MEDIUM DUTY

C €⊕ LISTED

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 (18.16 kg)

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

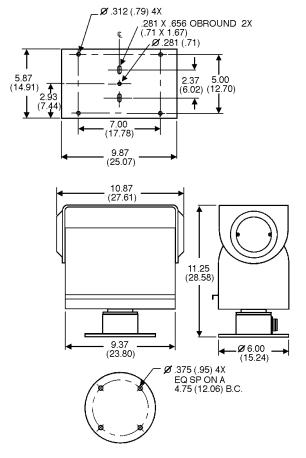
Control voltages are 120 VAC for the **PT570P** and 24 VAC for the **PT570-24P**.

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 (18.16 kg) and are recommended for use with our EH4700 Series environmental enclosures.

Available options include high speed pan and/ or tilt gears and blanket heater to allow operation to -50°F (-45.56°C).

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





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

DataFAX Documents SPEC: 2330 MANUAL: 23306 A&E: CONSULT FACTORY



TECHNICAL SPECIFICATIONS

MODELS PT570P

120 VAC, medium duty pan/tilt PT570P/PP Discontinued PT570P/RAD Discontinued 24 VAC, medium duty pan/tilt PT570-24P PT570-24P/PP Discontinued PT570-24P/RAD Discontinued

MECHANICAL

0-355° movement in horizontal plane Speed 10 ft/lb with specified voltage Torque Tilt ± 90° movement in vertical plane $3^{\circ}/\text{sec} \pm .5^{\circ}$ Speed Torque 20 ft.lb with specified voltage 40 lb (18.16 kg) at 5" (12.7 cm) from tilt table surface to center of Maximum Load gravity

Adjustable worm-gear final drive to prevent drift and minimize backlash Gearing Pan — Heavy-duty ball bearings **Bearings** Oilité bronze bushing Mechanical friction-type Braking Duty Cycle 50% duty cycle; 30 minute rating

ELECTRICAL Input Voltage

Power Requirements

120 VAC or 24 VAC, 50/60 Hz

120V Units 24V Units .9 amp (21.6 vA) (Running) Pan .18 amp (21.6 vA) Tilt .9 amp (21.6 vA) .18 amp (21.6 vA)

(Starting) Pan 1.35 amps (32.4 vA) .27 amp (32.4 vA) 1.35 amps (32.4 vA) .27 amp (32.4 vA)

AMP CPC type (mate supplied) Connectors Two-phase induction type, Motors instantaneous reversing

5 amp each (pan and tilt); external Limit Switches 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.

Cable Distances

6 Cond. 7 Cond.* 1,045 ft (318.52m) 2,080 ft (633.98m) 20 Awg PT570P 18 Awg 1,665 ft (507.49m) 3,330 ft (1014.98m) 16 Awg 2,640 ft (804.67m) 5,285 ft (1610.87m)

PT570-24P 20 Awg 40 ft (12.19m) 85 ft (25.91m) 18 Awg 65 ft (19.81m) 135 ft (41.15m) 110 ft (33.53m) 16 Awa 220 ft (67.06m)

*Using 2 wire motor common

Distances are calculated with both motors (pan and tilt) running and assuming a 10% voltage drop in the cable.

Pan/tilt distances can be extended with use of RB115 (PT570P) or RB24 (PT570-24P) relay box. See Table I for extended distances.

GENERAL

Construction Aluminum plate; all internal parts

corrosion protected

Finish Gray polyester powder coat Outdoor; Environment

-10° to 120°F (-23.33° to 48.89°C) Weight

22 lb (9.9 kg) 25 lb (11.5 kg) Shipping Weight

Table I. Recommended Cable Distances Using RB115/RB24 Relay Box

| Wire Size (Awg) | Maximum Distance "A" | RB115 Maximum Distance "B" | RB24 Maximum Distance "B" |
|---|--|--|---|
| 20 18 16 | 5,800 ft (1,768m) 8,250 ft (2,515m) 13,000 ft (3,962m) | 1,045 ft (318.52m) 1,665 ft (507.49m) 2,640 ft (804.67m) | 40 ft (12.19m) 65 ft (19.81m) 110 ft (33.53m) |
| MPT24DT/ MPTA24DT/ MPTA24DT/ MPTA24DT/ RB2115/ RB24 120 VAC POWER SOURCE | | | |

CERTIFICATIONS/RATINGS

CE compliant (PT570-24P)

UL listed to Standard 2044

NEMA 3R

OPTIONS

FG/570 High speed gearing: 9°/4.5° per sec pan/tilt speeds. Reduces load to 20 lb (9.08 kg). FGP/570 High speed pan gearing: 9°/sec pan FGT/570 Special high speed tilt gearing: 4.5°/ sec tilt speed. Reduces load to 20 lb (9.08 kg).

Blanket heater in cover. Allows HB/570 operation to -50°F (-45.56°C). 75 watts

total. 120 VAC, 50/60 Hz.

RECOMMENDED CONTROLS

Coaxitron or Matrix See individual spec sheets for information.

MPT/MPTA Series Desktop control for 120/24 VAC pan/ tilts. (See C520 spec)

MPTAZ Series Desktop pan/tilt and zoom lens control with auto/random scan.

(See C528 spec)

RB115, RB24 Relay box for extended low voltage

operation. Extends operating distance (control to relay box). (See C915 spec)

RECOMMENDED ENCLOSURE

EH4700 Series Environmental enclosure. (See C1405 spec)

RECOMMENDED MOUNTS

PA2000 Adapter plate; required when using WM2000. PM2000, PM2010

Ceiling/pedestal mount. Max. load 125 lb (56.75 kg). (See C255 spec) Support strut; use with WM2000/ ST1

PM2000/PM2010.

WM2000 Wall mount. Max. load 75 lb (34.02 kg). (See C266 spec)

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