PAPI
Precision Approach Path Indicator

COMPLIANT WITH:
- FAA AC150/5345-28, L-880 and L-881
- FAA-E-2756
- ICAO – Annex 14
- USAF–AFJMAN 32-1076
- US ARMY – TM5-811-5
- NATO – STANAG 3316
- ASCC – AIR STD 65/35

GENERAL DESCRIPTION

The Multi Electric 3rd Generation PAPI System consists of a three lamp Light Housing Assembly as the main component. Additional components include Power and Control Unit, Series Circuit Lamp Shorting Devices with integral Tilt Switch and Aiming Instrument Set.

FEATURES CHECKOFF

- ✓ **Low Power Consumption** – The Multi Electric PAPI is a low power consumption, energy efficient system. Each Lamp Housing Assembly draws approximately 300Watts as apposed to others 400 to 600 Watt consumption.

- ✓ **Physical Size** – The size and weight of the Multi Electric PAPI Lamp Housings is up to 30% less than other systems.

- ✓ **Tool-Less Maintenance** – Most routine service components can be changed without the use of hand tools.

- ✓ **Universal Mounting** – The Lamp Housing Assembly can be mounted on wide range of 3 leg mounting patterns. Standard mounting is on a 22" across the front and 16" front to back. Four additional mounting configurations are available for retrofit on most 3-leg PAPI existing foundations.

- ✓ **Experience** – Support of one of the oldest and most experienced companies in the United States for approach lighting systems.
**ORDERING INFORMATION**

Basic PAPI System:

Type:  L-880 – 0  
L-881 – 1

Style:  A – Voltage Powered – 0  
B – Series Circuit – 1

Option: No- Shorting Device, Style B – 10  
Night Sentinel – (Series Circuit Control) – 20  
Long Mount (28” Tee Bar) – 01

Example:

1) 4 LHA L- 880 Voltage Powered PAPI on standard mount — 5900-200
2) 2 LHA L- 881 Series Circuit with Shorting Device Long Mount — 5900-211-01
3) 4 LHA L- 880 Series Circuit without shorting device on long mount — 5900-201-11
4) 2 LHA L -881 Voltage Powered Standard Mount with Night Sentinel — 5900-210-20

Other options are available. Contact factory for more information.

**PHOTOMETRICS**

![Photometric Diagram](image-url)
TYPICAL AIMING CRITERIA

A, B, C, D = ELEVATION ANGLES FOR LIGHT UNITS
G = B + C = GLIDE PATH ANGLE
E = G - 1.2 = PAPI CLEARANCE PLANE ANGLE
RRP = RUNWAY REFERENCE POINT
T = THRESHOLD CLEARANCE HEIGHT

90M (300FT)

PAPI WING BAR

TYPICAL LIGHT PATTERNS AS SEEN ON APPROACH

A. TOO LOW
B. SLIGHTLY LOW
C. CORRECT APPROACH ANGLE
D. SLIGHTLY HIGH
E. TOO HIGH

PAPI PATTERNS AS SEEN FROM THE APPROACH ZONE

Standard Mounting Footprint 22in. W 16in. L
SPECIFICATIONS

**Electrical:**

- **Style A Input Power**
  - Voltage: Nominal 240 / 120 VAC 50-60Hz
  - Current: L-880 Less than 5.5 Amps
  - L-881 Less than 3.0 Amps

- **Style B**
  - 6.6A – 315W per LHA Secondary Load
  - 6.6A or 20A 330W Maximum Regulator Load

**Optics:**

- Split Beam White over Red
- Transition of less than 3 min of arc.
- Optical Quality Glass Bi-Convex Lens Ground Red Filters

**Operating Temperature:**

- −55°C to + 55°C (-67°F to + 168°F) Standard

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**SPARE / RENEWAL PARTS**

<table>
<thead>
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<th>Part Number</th>
<th>Description</th>
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<th>Description</th>
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<tbody>
<tr>
<td>5903-100A</td>
<td>Lamp Housing Style A</td>
<td>9637-05</td>
<td>Lamp</td>
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<tr>
<td>5903-100B</td>
<td>Lamp Housing ICAO</td>
<td>961-AT</td>
<td>Frangible Coupling – 2in</td>
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<tr>
<td>5903-100ICAO</td>
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<td>964-P</td>
<td>Frangible Coupling – 1.5in</td>
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<td>5920-101</td>
<td>Power Control Unit</td>
<td>5556-19</td>
<td>Floor Flange</td>
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<td>5900-77</td>
<td>Tilt Switch</td>
<td>5900-158</td>
<td>Leg Cap Assembly</td>
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<td>5910-185</td>
<td>Master Control PCB -</td>
<td>5903-185</td>
<td>Tilt Sensor and Lamp</td>
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<td></td>
<td>Style A</td>
<td></td>
<td>Control PCB - Style B</td>
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<td>5900-186</td>
<td>Tilt Driver PCB – Style A</td>
<td>5903-196</td>
<td>Tilt Buffer – Style B</td>
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<td>5920-200</td>
<td>Night Sentinel PCB –</td>
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<td>Aiming Instrument with</td>
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<td></td>
<td>Style A</td>
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<td>Carrying Case</td>
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<tr>
<td>5900-105</td>
<td>Red Filter</td>
<td>5900-09</td>
<td>Aiming Instrument</td>
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<td>5910-10</td>
<td>Photocell</td>
<td>5910-06</td>
<td>Circuit Breaker</td>
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| 5900-150    | Transformer                  | 5910-04     | Contactor

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