

Horn/Strobe LP7 Instruction Manual

Part num	bers:
	42002
	42003
	42004
	42005
	42010
	42011





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INSTALLATION AND SERVICE INSTRUCTIONS FOR LP7 HORN/ STROBE

A SAFETY MESSAGE TO INSTALLERS

It is important to read, understand, and follow all instructions shipped with this product.

Selection of mounting location for this device, its controls and routing of wiring should be made by the Facilities Engineer and the Safety Engineer. Listed below are other important safety instructions and precautions you should follow.

- This unit must be installed and maintained by a qualified electrician in accordance with National and local Electrical Codes, under the direction of the authority having jurisdiction.
- Do not connect this unit to system wiring when circuits are energized.
- For optimum sound distribution do not install this device where objects would block the front of the sounder.
- All effective warning horns produce loud sounds which, in certain circumstances, may cause permanent hearing loss. Take appropriate precautions such as wearing hearing protection. Recommendations in OSHA Sound Level Standard (29 CFR 1910) should not exceeded.
- After installation, be sure that all threaded joints are securely tightened.
- After installation and completion of initial systems test, a program for periodic testing of this device must be established.
- After installation and completion of initial system test, provide a copy of this instruction booklet to all personnel responsible for the operation, periodic testing, and maintenance of this equipment.

I. GENERAL

The PureAire Horn/Strobe provides an audible and visual signal when activated remotely. The sounder is a polarized device rated at 18–28 Vdc. The Horn/Strobe can provide 32 different tones with an adjustable volume located on the inside of the unit. For a list of tones, see Table 1.

Electrical Details:

Termination:	Screw terminals for 24 AWG to 14 AWG conductors.
Voltage Range:	18 Vdc to 28 Vdc
Starting Current:	1.1 A for 1 ms
Running Current:	68 mA average
Monitoring:	Polarizing diode
Mechanical Details:	
Diameter:	3.66 in (93 mm)
Overall Depth:	Shallow Base: 3.6 in (91 mm)
	Deep Base: 4.72 in (120 mm]
IP Rating:	IP54 (Shallow Base), IP65 (Deep Base)
Temp. range:	-10 °C to +55 °C (14 °F to +131 °F)
Material:	ABS plastic body with polycarbonate lens
	-1-

II. INSTALLATION

A. Unpacking

After unpacking the horn/strobe, examine it for damage that may have occurred in transit. If equipment has been damaged, do not attempt to install or operate it. File a claim immediately with the carrier stating the extent of the damage. Carefully check all envelopes, shipping labels and tags before removing or destroying them.

B. Mounting Arrangements

To access mounting holes and electrical connections turn over the Horn/Strobe so the Strobe lens is facing down. Twist the base counter-clockwise to remove.

The base of the Horn/Strobe provides six (6) slotted recesses for mounting, and one 15/32 inch cable access hole.

C. Electrical Connections

DANGER



To avoid electrical shock, do not attempt to connect wires when power is on. A terminal block is supplied on the Horn/Strobe for field wiring. Strip 1/2 inch of insulation from the wiring leads. Attach the appropriate wires to the corresponding terminals. Tighten the screws to insure that the wires are firmly held in place. The terminals will accept conductor sizes 24 AWG to 14 AWG.

III. TESTING/OPERATING

A WARNING

Under certain conditions these devices are capable of producing sound loud enough to cause hearing damage. Adequate hearing protection should be worn if standing within close proximity to the device while testing. Recommendations in OSHA Sound Level Standard (29CFR 1910) should not be exceeded.

After completion of installation be sure to test the system to verify that each sounder unit operates satisfactory.

After completion of initial system test, a program for periodic testing of this device should be established.

Provide a copy of these instructions for the Safety Engineer(s), System Operators(s) and Maintenance personnel.

SAFETY MESSAGE TO OPERATORS

Although your warning system is operating properly it may not be completely effective. People may not hear or heed your warning signal. You must recognize this fact and ensure that your warning signal achieves its intended effect through proper test/training sequences suitable for your specific application(s).

IV. MAINTENANCE

SAFETY MESSAGES TO MAINTENANCE PERSONNEL

Failure to follow all the safety precautions and instructions may result in property damage, serious injury, or death to you or others.

- Read and understand all instructions before performing maintenance on this unit.
- Do not perform maintenance on this unit when the circuit is energized.
- Periodic checks should be made to ensure that effectiveness of this device has not been reduced because objects have been placed in front of the unit.
- Any maintenance to this unit MUST be performed by a trained electrician in accordance with NEC guidelines and local codes.
- Never alter this unit in any manner. Safety may be jeopardized if alterations are made to this device.
- The nameplates, which contain cautionary or other information of importance to maintenance personnel, should not be obscured if the exterior of the horn is painted.

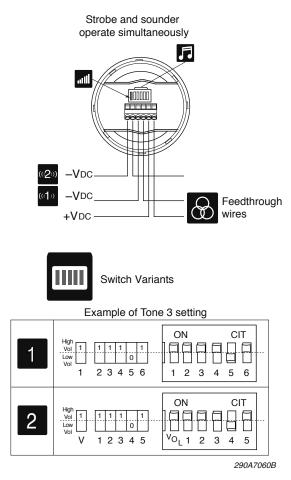
A WARNING

Unauthorized servicing of this unit may result in diminished performance and/or property damage, serious injury, or death to you or others. If a malfunctioning unit is encountered, do not attempt any field repair or retrofit of parts. Refer to paragraph V. SERVICE for instructions regarding return/repair of the unit.

V. SERVICE

The factory will provide technical assistance with any problem that cannot be handled locally with satisfaction. Please contact PureAire Monitoring Systems for assistance.

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				Main Application	24 V a	24 V at 20 °C
	Pattern	Frequency Hz	Rate		шA	dB(A)
1111	Alternating	800 and 970	2 Hz (250 ms-250 ms)	BS Fire	68	100
11110	Sweep	800 to 970	7 Hz (7/s)	BS Fire	68	101
11101	Sweep	800 to 970	1 Hz (1/s)	BS Fire	68	101
11100	Continuous	2850	Steady	General Purpose	82	110
11011	Sweep	2400 to 2850	7 Hz	General Purpose	80	110
11010	Sweep	2400 to 2850	1 Hz	General Purpose	80	110
11001	ທັ	500 to 1200	3 s sweep, 0.5 s silence, then repeat	Dutch Fire (NEN 2575)	70	98
11000	Sweep (DIN)	1200 to 500	1 Hz	German Fire (DIN 33 404)	66	98
10111		2400 and 2850	2 Hz (250 ms-250 ms)	General Purpose	80	109
10110		970	0.5 Hz (1 s On/1 s Off)	PFEER alert	62	100
10101	Alternating	800 and 970	1 Hz (500 ms-500 ms)	BS Fire	68	100
10100	Intermittent	2850	0.5 Hz (1 s On/1 s Off)	General Purpose	74	109
10011	Intermittent	970	0.8 Hz (250 ms On/1 s Off)	General Purpose	58	96
10010	Continuous	970	Steady	PFEER toxic gas	70	101
10001	Alternating	554 and 440	100 ms-400 ms	French Fire (NFS 32-001)	62	93
10000	Intermittent	660	3.3 Hz (150 ms On/150 ms Off)	Swedish (Air raid)	59	86
01111	Intermittent	660	0.28 Hz (1.8 s On/1.8 s Off)	Swedish (Local warning)	62	88
01110	Intermittent	660	0.05 Hz (13 s Off / 6.5 Hz On)	Swedish (Pre-mess)	64	88
01101	Continuous	660	Steady	Swedish (All clear)	64	68
01100	Alternating	554 and 440	0.5 Hz (1 s On/1 s Off)	Swedish (Turn out)	63	96
	Intermittent	660	1 Hz (500 ms-500 ms)	Swedish General Purpose	60	100
	Intermittent	2850	4 Hz (150 ms On/100 ms Off)	Pelican crossing	72	109
	Sweep	800 to 970	50 Hz	BS Fire	68	101
	Sweep	2400 to 2850	50 Hz	General Purpose	75	110
	Intermittent	970	3 x 500 ms pulses, 1.5 s silence, then repeat	ISO 8201	64	66
	Intermittent	800 to 970	3 x 500 ms pulsed sweep, 1.5 s silence, then repeat	ISO 8201	70	108
27 00101	Intermittent	970 and 800	3 x 500 ms pulsed sweep, 1.5 s silence, then repeat	ISO 8201	85	83
	Alternating	800 and 970	2 Hz (250 ms-250 ms)	BS Fire	67	100
	Alternating	990 and 650	2 Hz (250 ms-250 ms) (Symphoni tones)	BS Fire	71	66
	Alternating	510 and 610	2 Hz (250 ms-250 ms) (Squashni Micro tones)	BS Fire	65	96
	Sweep	300 to 1200	1 Hz	General Purpose	71	96
00000	Alternating	510 and 610	1 Hz (500 ms-500 ms)	BS Fire	85	83

Table 1 Siren tones