PROJECT MANUAL GUIDE SPECIFICATIONS FOR PFANNENBERG MODEL PA X 20 FLASHING SOUNDER

PART 1 – GENERAL

1.1 SUMMARY

A. Visual and audible signaling devices for alarm, warning, and indication are used to promote safety to personnel, create efficiency in movement of people and materials, and report operating status of machinery and processes.

1.2 SECTION INCLUDES

A. Horns, Strobes, Sounders, Flashing Sounders, Signal Towers, LED Beacons, Traffic Lights, Buzzers, and Loudspeakers as scheduled in this section and as indicated on the drawings.

1.3 SUBMITTALS

A. Product Data: Submit the following manufacturer's documentation for each product specified.
   1. Catalog specifications and outline drawings.
   2. Installation and operating instructions.
   3. Certifications to substantiate necessary agency approvals.

B. Manufacturer Warranty
   1. Manufacturer's warranty for Strobes, LED Beacons, Sounders, and Flashing Sounders. Manufacturer's standard 10-year warranty for PYRA Series Strobe Lights, PATROL Series Sounders, PATROL Series Flashing Sounders, DS Series Sounders, Quadro Series Strobe Lights, Quadro Series LED Beacons, and Quadro Series Traffic Lights.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design and Support: To ensure uniformity of operation, standardization of signal types, quality of construction, standard 10-year warranty term, and worldwide localized support, specifications are solely based, wherever practical, on the products of Pfannenberg Inc. www.pfannenbergusa.com.

B. Substitution: Products of a similar nature from other manufacturers may be considered only when performance capabilities, mounting and installation capabilities, environmental use and survivability ratings, operational certifications, and 10-year warranty terms are fully met or exceeded.

2.2 PERFORMANCE / DESIGN CRITERIA

A. Audible-Visual Alarm. Model PA X 20 Flashing Sounder – 120 dB(A) electronic tone generator, horn, siren with integrated 10 or 15 Joule flashing strobe light. As part of the PATROL series of sounders and flashing sounders, this unit is capable of generating multiple tones from an extensive tone menu in

order to generate up to four different audible alarm signals based on circumstance or event. The unit has been designed for quick and easy installation with 3/8-turn captive fasteners and features a keyway in the housing to ensure that an incorrect assembly is not possible. All electrical connections are made at a common terminal strip in the back box to eliminate the possibility of wires being pinched to ensure a safe installation. The unit takes advantage of sound capsule technology to generate a wider tonal frequency envelope and achieve sound penetration through walls and obstacles, which delivers superior signaling capability when compared to other tone generation methods (such as piezoelectric transducers or vibrating horns). The integrated strobe light delivers a high energy flash that is commensurate with the output dB rating of the sounder to distribute visual signaling in a manner that is proportionate to the coverage area of the audible alarm. With a choice of electrical connector sockets, the user selects whether the strobe light will operate simultaneously with the sounder or be controlled independently from it.

1. Nominal Output Sound Pressure Level (at 1 meter): 120 dB(A).
2. Maximum Output Sound Pressure Level (at 1 meter): 122 dB(A).
3. Number of Capable Tones: 80.
4. Number of Tone Stages (different tones capable by external control): 4.
5. Strobe Light Flash Energy (pick one): 10 Joules (max 129 cd light intensity); 15 Joules (max 190 cd light intensity).
6. Strobe Light Service Life (for >70% light emission): 8 million flashes.
7. Strobe Light Lens Color (pick one): clear, white, yellow, amber, red, green, blue.
8. Operating Voltage Range (pick one): 12 to 15 VDC; 18 to 30 VDC; 40 to 60 VDC; 18 to 30 VAC; 90 to 135 VAC; 187 to 255 VAC.
9. Housing Color (pick one): Red (RAL 3000); Light Grey (RAL 7035); White (RAL 9003).
10. Operating Temperature Range: -40 to +131 °F (-40 to +55 °C).
11. Dimensions: 10.6 inch (270 mm) h x 8.4 inch (214 mm) w x 7.1 inch (181 mm) d.
12. Housing Material: Injection-molded, flame-retardant and UV-resistant blend of ABS and polycarbonate.
13. Ingress Protection: IP 66, UL Type 4/4X.
14. Gasket Type: Permanently attached “poured-in-place”.
15. Enclosure Fasteners Included: 3/8-turn captive screws.
16. Agency Approvals Included: UL; cUL; CE.
17. Warranty Period: 10 years.
18. Optional Features and Accessories (include only if desired).
    a. Tamper Resistance (optional): Tamper-proof fastener plugs.
    b. Agency Approvals (optional – pick desired only): GL.
    c. Surface Mount Gasket (optional).
    d. Enclosure Coupler (optional).

2.3 AUDIBLE / VISUAL ALARMS SCHEDULE

A. Pfannenberg Model PA X 20-10 Flashing Sounder (10 Joules).

B. Pfannenberg Model PA X 20-15 Flashing Sounder (15 Joules).

PART 3 – EXECUTION

3.1 INSTALLATION

A. Install products in strict compliance with manufacturer's written instructions and recommendations.

END OF SECTION

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Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

CSI Master Format Sections for which this product may be applicable include the following:

25 35 00 Integrated Automation Instrumentation and Terminal Devices for HVAC
- 25 35 13 Integrated Automation Actuators and Operators
- 25 35 16 Integrated Automation Sensors and Transmitters

25 38 00 Integrated Automation Instrumentation and Terminal Devices for Electronic Safety and Security Systems

25 58 00 Integrated Automation Control of Electronic Safety and Security Systems

26 06 00 Schedules for Electrical
- 26 06 20.13 Electrical Switchboard Schedule
- 26 06 20.16 Electrical Panelboard Schedule
- 26 06 20.19 Electrical Motor-Control Center Schedule

26 24 00 Switchboards and Panelboards
- 26 24 13 Switchboards
- 26 24 16 Panelboards
- 26 24 19 Motor-Control Centers

26 27 00 Low-Voltage Distribution Equipment
- 26 27 16 Electrical Cabinets and Enclosures
- 26 27 73 Door Chimes

26 29 00 Low-Voltage Controllers
- 26 29 13 Enclosed Controllers
- 26 29 13.13 Across-the-Line Motor Controllers
- 26 29 13.16 Reduced-Voltage Motor Controllers
- 26 29 23 Variable-Frequency Motor Controllers
- 26 29 33 Controllers for Fire Pump Drivers
- 26 29 33.13 Full-Service Controllers for Fire Pump Electric-Motor Drivers
- 26 29 33.16 Limited-Service Controllers for Fire Pump Electric-Motor Drivers
- 26 29 33.19 Controllers for Fire Pump Diesel Engine Drivers

26 55 00 Special Purpose Lighting
- 26 55 33 Hazard Warning Lighting
- 26 55 36 Obstruction Lighting
- 26 55 53 Security Lighting

28 06 00 Schedules for Electronic Safety and Security
- 28 06 30 Schedules for Electronic Detection and Alarm

28 26 00 Electronic Personal Protection Systems
- 28 26 16 Electronic Personal Safety Alarm Annunciation and Control Systems

28 30 00 Electronic Detection and Alarm

28 31 00 Fire Detection and Alarm
- 28 31 63.13 Fire Alarm Horns and Strobes

28 32 00 Radiation Detection and Alarm
- 28 32 23 Radiation Detection and Alarm Integrated Audio Evacuation Systems

28 33 00 Gas Detection and Alarm
- 28 33 23 Gas Detection and Alarm Integrated Audio Evacuation Systems

28 34 00 Fuel-Oil Detection and Alarm
- 28 34 23 Fuel-Oil Detection and Alarm Integrated Audio Evacuation Systems

28 35 00 Refrigerant Detection and Alarm
- 28 35 23 Refrigerant Detection and Alarm Integrated Audio Evacuation Systems

28 36 00 Water Detection and Alarm
- 28 36 43 Building Envelope Water Detection and Alarm

28 39 00 Mass Notification Systems

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