



Product Specification Sheet



APS476
Rev. 4 - 04/2003



**A-41044-Station
Master Station**

**4101A Standard
Remote Station**

**4101/V Anti-Vandal
Remote Station**

4100 SERIES VISUAL RESCUE ASSISTANCE SYSTEMS

The Americans with Disabilities Act (ADA) now being enforced, requires a Rescue Assistance System in all newly constructed multi-story commercial buildings and public accommodations to provide a means to request evacuation assistance in the event of an emergency. The ADA also applies to significant renovations or alterations of existing multi-story facilities.

The cost effective solution is the Alpha Communications@/Cornell 4100 series visual Rescue Assistance System, which signals the need for evacuation assistance. The 4100 series provides reliable repeating tone and light signal at the central (master) station. When the alarm is acknowledged, the caller is signaled visually and audibly that help is on the way. When the emergency is resolved, pressing the acknowledge button a second time resets the system. For additional safety, a live 'fault' lamp will signal at the central (master) station, if the wiring has been faulted.

The economical 4100 series is designed to accommodate up to 20 remote locations for each master station. The smallest master station is a 4-unit and the capacities increment in groups of 4 to a maximum of 20. Master and remote stations are made of rugged Stainless Steel and Anodized Aluminum. Master stations emit a loud, clear tone signal that commands an immediate response. When the remote call station is activated, the long-life LED indicator at the master station lights instantly, identifying the remote station (zone) in need of assistance. When the master station acknowledges the call, a

light and sound informs the caller that the request for assistance has been heard and seen.

The standard visual remote call station is the model 4101A. The 4101A fits neatly into a single gang electrical box (or plaster ring) and is designed for indoor use.

When vandalism is a concern, we offer the model 4101/V vandal-resistant remote station. The 4101/V features a metal call button and tamper-resistant mounting screws and fits neatly into a two gang electrical box (or plaster ring) and is designed for indoor or outdoor use.

Each master station is powered by a model#PK601A (24VDC) power supply and SS106 transformer. When battery back-up power is required or specified, you may substitute the model# B-5243 in place of the PK601A. The B-5243 power supply contains the back-up batteries and battery charger required or specified.

We also offer a complete line of Rescue Assistance Signage. This includes a series of battery powered room identification signs, as well as direction and location signs. These signs meet ADA specifications for use with Areas of Rescue Assistance. See our specification sheet# APS478 for more information on the signage available.

Due to continuous product improvement, all colors, sizes, materials, finishes and specifications are subject to change without notice.

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4100 Series Visual Rescue Assistance System

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The Area of Refuge (Area of Rescue) system(s) shall be Alpha Communications®/Cornell 4100 visual series or approved equal. It shall have push-button controlled circuits and LED indicator lights for call functions.

At the master location, contractor shall furnish and install one (1) model A-41xx master annunciator (xx=number of zones from 4 to 20 in multiples of 4) with the appropriate flush backbox. Each A-4100 series master station shall have one (1) alternate action switch with internal LED indicator for each zone, to allow for positive call-in recognition, when activated. Each master station shall emit a minimum sound level of 90db at 30cm. A Yellow LED light on the master will illuminate and the alarm will emit a repeating sound if any of the supervised lines are faulted.

Each master station shall be constructed of natural anodized aluminum, with permanently silk screened designations on the panel as well as a designation strip.

At each of the remote call-in locations, contractor shall furnish and install a model 4101A (standard) or 4101/V (anti-vandal) remote station, and its associated flush electrical back box (or plaster ring). Remote(s) shall consist of one (1) momentary switch with LED and one (1) audible alarm device with a minimum sound level of 90db at 30cm. Remote shall have Call-Placed and Call-Answered L.E.D. indicators. Screw terminals shall be provided for all wiring connections.

Contractor shall furnish and install one (1) model# PK601A power supply (with SS106) OR one (1) model# B-5243 combination power supply and battery back-up unit, for each master station.

Contractor shall observe all local and national electrical codes (and A.D.A. regulations).

PRINCIPLE OF OPERATION

ACTIVITY	AT MASTER	AT REMOTE
Standby mode	No Light/Tone	No Light/Tone
Alarm Sent	Steady LED/ Intermittent Tone	Steady LED/ Tone/One Time
Alarm Acknowledged/Activated	Flashing LED/ No Tone	Flashing LED/ Intermittent Tone
Wiring Fault	Yellow LED at Zone/Intermittent Tone	No LED/No Tone

SPECIAL NOTE: Area of Rescue systems are known by several names... these include Area of Rescue Assistance, Area of Rescue, Area of Rescue Assistance, Area of Refuge, Area of Refuge Assistance. These names are basically interchangeable.

4100 Series System Features

- ADA Compliant
- Supervised
- Choice of Standard or Anti-Vandal Remotes
- Battery Back-up (optional)
- Choice of Master Stations
- Choice of ADA Compliant Signage available
- Remotes mount into standard electrical boxes
- Simple to wire

WIRING REQUIREMENTS

From the master station to each remote call station run a four (4) conductor #22AWG cable. Cable need not be shielded. Each cable run should not exceed 3,000 feet (914 meters).

From the master station to the power supply (#PK601A or B-5243) run a two (2) conductor #18AWG cable. Cable need not be shielded. Power supply cable run should not exceed 500 feet (152 meters).

MASTER STATION MODELS AVAILABLE/SIZES

Model#	Master Station	Flush Back Box
A-4104 (4-zone)	4.5"H x 10.0"W	5-Gang El. Box
A-4108 (8-zone)	5.5"H x 19.0"W	4.5"H x 17.0"W
A-4112 (12-zone)	8.5"H x 19.0"W	7.75"H x 17.0"W
A-4116 (16-zone)	8.5"H x 19.0"W	7.75"H x 17.0"W
A-4120 (20-zone)	12.5"H x 19.0"W	11.25"H x 17.0"W

NOTE: All flush back boxes are 3.50" Deep.

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