

Housing Devices, Inc.

ARS-1200® Area of Refuge System 2.0a

STANDARD FEATURES:

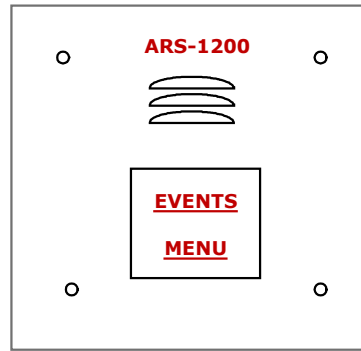
- Vandal Proof 16 gauge Stainless Steel 304 #4 Construction
- RS-485 & IP Ethernet Communication
- Master Station Touch Screen Display
- Complete System Supervision Circuits
- Large 3" "PUSH FOR HELP" Button
- Dual Audio & Visual Alarms for the Hearing and Visual Impaired
- Engraved Area & Master Station (no silk screen)
- Modular Design provides for any number of Areas Stations & Master Stations
- 24 Vdc 2.5 amp UL Listed Battery Back-up
- 4000 Ft. Max. (Master to Area Station)

OPTIONAL FEATURES:

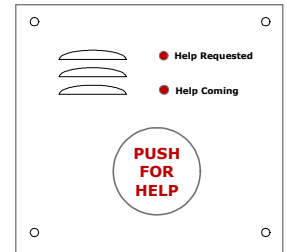
- **HDI-ARS-F&C Software Including:**
Gun shot Detection, Glass Breakage, ALL Call, Offsite Communication, Google Maps, Master to Master Communication, Test & Inspection Logging. Communicate, Supervise & test the ARS system from anywhere in the world with internet access.
- Multiple Master Stations utilizing an IP network
- External Speaker & Strobe Connection
- Braille Instructional Signs
- Photoluminescent Signs (glow in the dark)
- Illuminated Signs with Wall, & Ceiling mount, Single Face, Double Face & Battery Back-up
- Color coded wiring (HDI-ARS-IP)
- Surface or Flush Mount
- Custom Size Master & Area Stations for almost all Manufactures Area of Refuge/Rescue systems.

DESCRIPTION:

The ARS-1200 is a RS-485, IP-addressable hands-free Area of Refuge System with dual audio and visual alarms and built-in supervision capabilities designed to comply with the ADA, IBC, ICC & NFPA Life Safety 101 Codes. The ARS-1200 is fully expandable and may be used as an independent system or as a complete networked system with the addition of the HDI-ARS-F&C Software.



HDI-ARS-M (Master)



HDI-ARS-A (Area)

SYSTEM OPERATION:

Depressing the "PUSH FOR HELP" button on an Area Station places the system in "HELP REQUESTED" mode, illuminates the "HELP REQUESTED" LED at the Area Station, the EVENT button at the Master Station turns Yellow, and sounds the 90 dbA piezoelectric alarms at both the Area and Master Stations. The security attendant presses the "EVENT" button followed by the "TALK" button on the Master Station to acknowledge both the audio alarm and , at both the Master and Area Station(s) and illuminates the "HELP COMING" LED light at the Area Station. This also enables two-way communication between the Master Station and the Area Station permitting the security attendant to converse with the individual requesting assistance. Pressing the "END" button at the Master Station extinguishes the "HELP COMING" LED indicator at each Area Station and clears the specific call. The Master Station attendant using the "TALK" and "LISTEN" buttons labeled for each Area Station's location controls all conversations.

ARS-1200® AREA OF RESCUE/ REFUGE SYSTEMS

COMPONENT DESCRIPTIONS

MASTER STATION (HDI-ARS-M)

The Master Station is the head end of the system from which all calls are controlled. It should be mounted in an appropriate and secure area typically adjacent to other security equipment.

1 (one) ARS-1200 Master Station accommodates up to 32 Area Stations. (4000 Ft. Max. from Master to Area Stations)

The ARS-1200 system can utilize multiple Master Stations to accommodate larger systems of any size. (8 Masters per network drop)

Part #	Description	Size
HDI-ARS-100	Master	11" x 11" x flush

(*Custom Sizes available for Larger and Retrofit applications Please consult the factory*)

AREA STATION (HDI-ARS-A)

Area Stations are stainless steel vandal proof 2 way intercoms with piezoelectric alarms, red LED indicators, and a large 3" panic button labeled "PUSH FOR HELP". Area Stations should be mounted in areas where they are visible and easily accessible by anyone needing help.

Part #	Description	Size
HDI-ARS-A	Area Station	9" x 9" x Flush

BATTERY BACKUP SYSTEM (HDI-ARS-PS)

The Battery Backup System provides continuous power to the ARS-1200 System in the event of a power failure. The HDI-ARS-PS features auto-resetting overload protection, visual AC and DC power indicators and built-in battery charger circuitry.

The system monitors for AC power failure, AC and DC surge suppression, and no/low battery indications. The system includes two (2) 12VDC sealed lead acid batteries (rated @ 4.5 amp hours each), a battery charger capable of charging two internally mounted batteries in 12 hours, and has a continuous output of 2.5 amps. Standby capability of 8 hours, Full alarm capability is 2 hours.

Part #	Description	Size
HDI-ARS-PS	Power supply	13.5" x 13.5" x 3.75"

MOUNTING SYSTEMS & DIMENSIONS

The ARS-1200 Area of Rescue\ Refuge system uses 2 forms of mounting systems:

HDI-ARS-BB is used for flush mounting the HDI-ARS-A & HDI-ARS-1200 (the HDI-ARS-BB is mounted in the wall)

16 gauge galvanized metal, .1/2 inch conduit knockouts

Screw holes for easy mounting and 4 #10/24 cage nuts

Part #	Description	Size
HDI-ARS-BB	Back Box	8" x 8" x 4"

HDI-ARS-SCM is used for surface mounting the HDI-ARS-A & HDI-ARS-1200 (the HDI-ARS-SCM is mounted on the wall) 18 gauge Stainless steel, .1/2 inch conduit knockouts, Screw holes for easy mounting and 4 #10/24 cage nuts

Part #	Description	Size
HDI-ARS-SCM-A	Area Collar	9.25"x9.25"x2.0"

HDI-ARS-SCM-M	Master Collar	11.25"x11.25"x2.25"
---------------	---------------	---------------------

OPTIONAL EQUIPMENT

HDI-ARS-F&C Software Including:

Gun shot Detection, Glass Breakage, Scream Detection, ALL Call, Offsite Communication, Google Maps, Master to Master Communication, Test & Inspection Logging. Communicate, Supervise & test the ARS system from anywhere in the world with internet access.

HDI-ARS-IP Cable

UL Listed and Rated Type CMP/FPLP Multi-Pair Non-Shielded Plenum Combo Cable 18 AWG 1 Pair (Red & Black) and 20 AWG 1 Pair (Blue & White) Non-Shielded 1000 Ft. roll

ARS-1200® AREA OF RESCUE/ REFUGE SYSTEMS

BRILLE SIGN (HDI-ADA-BS)

The Braille instructional sign, captioned in both English and raster Braille, Helvetica 67 condensed type red tactile, .1875 mounting holes, 4 tamper proof wood screws and eased edges is placed next to each HDI-ARS-A in the system and reads:

“FOR ASSISTANCE PUSH 3 INCH HELP
BUTTON”

Size 5.00”L x 7.25” W x .250”D

PHOTOLUMINESCENT SIGNS

HDI-ARA-V Series Sign

The HDI-ARA-V sign is a photoluminescent rigid vinyl sign with either Area of Rescue (HDI-ARA-V1) or Area of Refuge (HDI-ARA-V2) screened printed on the face.

Size 8.00”L x 8.00”W x .250”D

HDI-ARA-DB Series Sign

The HDI-ARA-DB sign is a photoluminescent acrylic sign with either Area of Rescue (HDI-ARA-DB-1) or Area of Refuge (HDI-ARA-DB-2) with Helvetica 67 condensed type black raised tactile material & clear raster Braille.

Size 8.00”L x 8.00”W x .250”D

ILLUMINATED AREA STATION SIGN

HDI-ADA-IS

The HDI-ADA-IS has long life high efficient LED lamps, double face illuminated sign reading: AREA OF RESCUE ASSISTANCE or AREA OF REFUGE with a NFPA 170 universal blue wheel chair symbol, 20 gauge steel frame, universal input 120 and 277 volt AC & Low profile canopy, flag & wall mount hardware. Left & right chevron knockouts. Meets or exceeds UL, NEC, OSHA, NFPA life Safety Code requirements

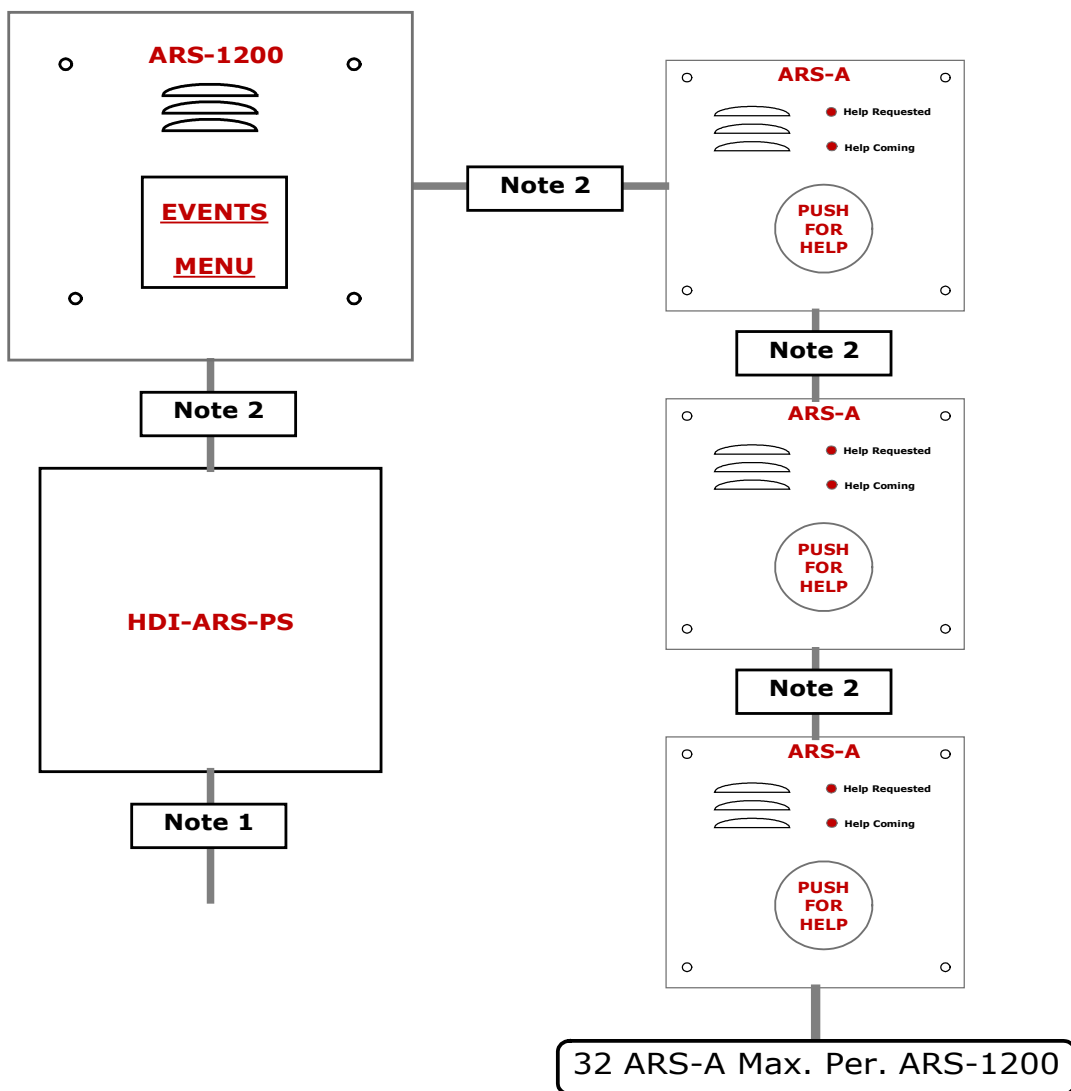
Size 8.250”L x 12.25”W x 2.25”D

HDI-ADA-IS-UL

The HDI-ADA-IS-UL has a battery and charging circuit built in with TEST button, full charge green LED lamp with 90 minutes of operation when the power is out. Long life high efficient LED lamps, double face illuminated sign reading: AREA OF RESCUE ASSISTANCE or AREA OF REFUGE with a NFPA 170 universal blue wheel chair symbol, 20 gauge steel frame, universal input 120 and 277 volt AC & Low profile canopy, flag & wall mount hardware. Left & right chevron knockouts. Meets or exceeds UL, NEC, OSHA, NFPA life Safety Code requirements.

Size 8.250”L x 12.25”W x 2.25”D

**HDI-ARS-1200 & ARS-A
Typical Three Zone System**



Wire & Cable Legend

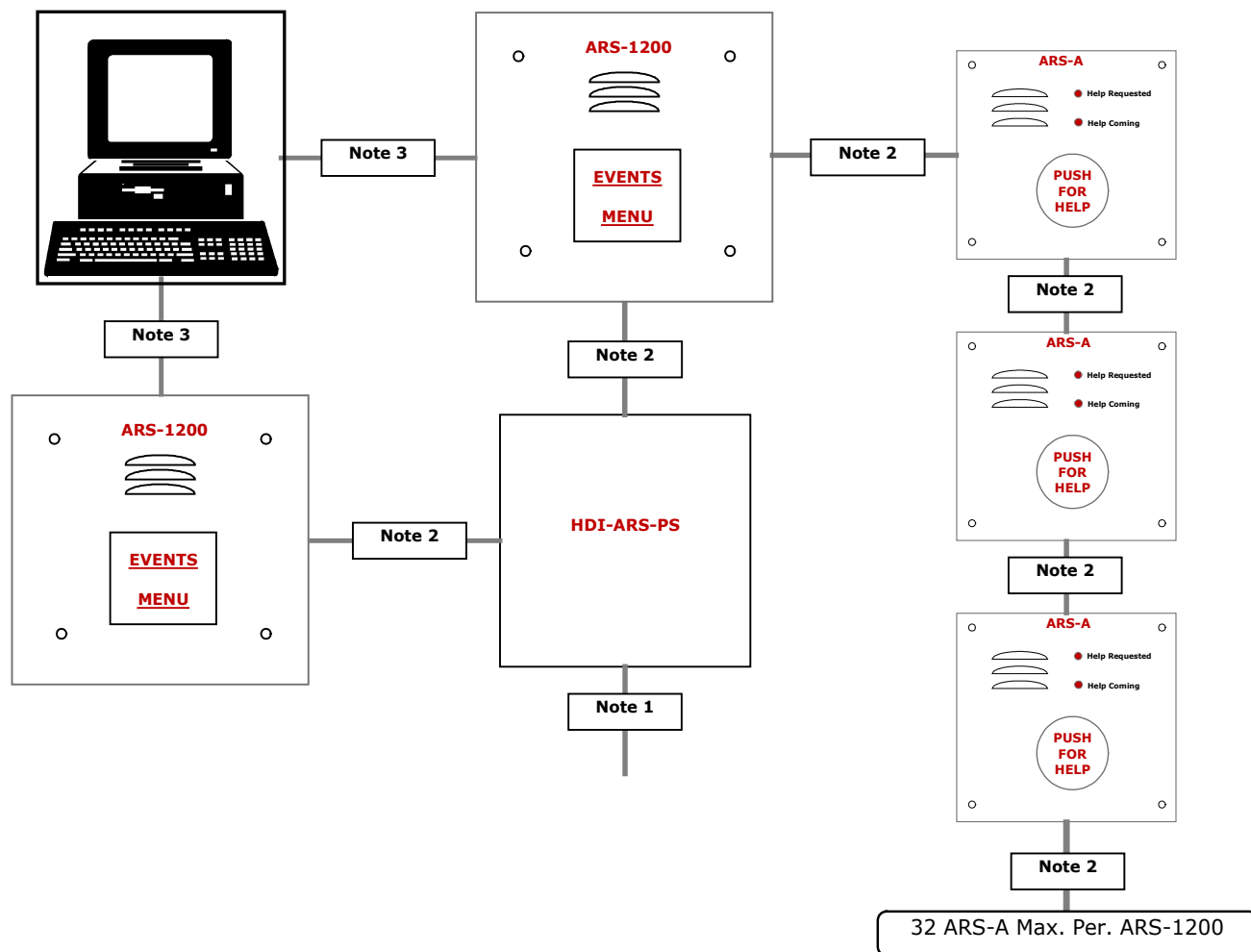
Note 1 Three (3) #14 AWG wires for 120VAC power from a dedicated emergency power branch circuit

Note 2 1 x 18 AWG twisted pair (2 conductor) for power connections & 1 x 20 AWG twisted pair (2 Conductor) for RS-485 connections using a Daisy Chain Configuration to the next (MAX. 32 ARS-A Area Stations per ARS-1200 Master Station 4000 ft. Max.)

HDI Cable part # HDI-ARS-IP is a 4 conductor cable with 2/ 18AWG conductors twisted (RED & Black) and 2/ 20AWG conductors twisted (Blue and White)

ARS-1200® AREA OF RESCUE/ REFUGE SYSTEMS

HDI-ARS-1200 & ARS-A Typical Three Zone System Dual Master w\F&C Software



Wire & Cable Legend

Note 1

Three (3) #14 AWG wires for 120VAC power from a dedicated emergency power branch circuit

Note 2

1 x 18 AWG twisted pair (2 conductor) for power connections & 1 x 20 AWG twisted pair (2 Conductor) for RS-485 connections using a Daisy Chain Configuration to the next ARS-A (MAX. 32 ARS-A Area Stations per ARS-1200 Master Station 4000 Ft. Max.)
HDI Cable part # HDI-ARS-IP is a 4 conductor cable with 2/ 18AWG conductors twisted (RED & Black) and 2/ 20AWG conductors twisted (Blue and White)

Note 3

1 Cat 5 or better cable between the ARS-1200 and the network computer. (Max. of 8 ARS-1200 Masters per system 300 Ft. Max per network riser)

HDI-ARS-IP Cable

UL Listed and Rated Type CMP/FPLP

Multi-Pair Non-Shielded Plenum Combo Cable

P/N HDI-ARS-IP - 18 AWG 1 Pair and 20 AWG 1 Pair Non-Shielded Plenum

Description	18 AWG 1 Pair Bare Copper and 20 AWG 1 Pair Bare Copper, Non-Shielded Plenum, UL Subject 444, Type CMP, C(UL)
Conductor Description	18 (7/26 Bare Copper) and 20 (7/28 Bare Copper)
Insulation	Low Smoke PVC .008"
Color Code	18 AWG: Black/Red; 20 AWG: Light Blue/White
Jacket	Low-Smoke PVC .018" Color: White with Blue Stripe
Marking	HOUSING DEVICES INC 800-392-5200 A B C D E 0 1 2 3 4 5 6 7 8 9 18 AWG 1 PR + 20 AWG 1 PR UL C(UL) CMP OR FPLP UL ROHS MADE IN THE USA
Overall Diameter	.264" Nom.
Capacitance	18 AWG: 27 pF/ft; 20 AWG: 22 pF/ft
Temperature and Voltage Rating	300 Volt



Flame Rating:

Approved For Plenum Use
Without Conduit Per NFPA
262 Flame Test

Agencies Approvals:

NEC Article 800, 725; UL
CMP, (UL), C(UL), RoHS
Compliant, Made in the USA

HDI-ARS-PS



- 12VDC or 24VDC Selectable Inputs
- 2.5 Amp Continuous Supply Current Output
- 2 /12VDC 4.5 Amp Hr. Sealed Lead Acid Battery's with Connection wire for 24VDC
- Class 2 Rated Power Limited Output
- 115VAC 60Hz, 1.45 Amp Input
- Filtered & Electronically Regulated Outputs
- Short Circuit & Thermal Overload Protection
- Built in Charger for Sealed Lead Acid or Gel Type Battery
- Maximum Current 0.7 Amp
- Zero Voltage Drop upon transfer from battery back-up
- AC Input & DC Output LED Indicator
- AC Fail Supervision (from C contact rated @1 amp 28VDC)
- Low Battery & Battery Presence Supervision (from C contact rated @1 amp 28VDC)
- 1/2" & 3/4" Combination Knockouts
- Top Mounting Flange
- UL Power Cord & Safety Clip
- Cabinet Dimensions 13.5" x 13.5" x 3.75"



Housing Devices, Inc.

ARS-1200® Back Box & Surface Collars

PRODUCT FEATURES

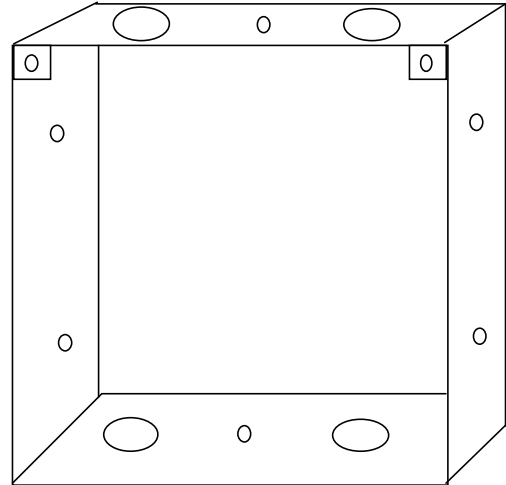
(Back Boxes)

- 16 Gauge Galvanized Metal
- 1½ inch Conduit Knock-Outs
- Screw Holes (for easy mounting)

TECHNICAL DATA

(Back Boxes)

- ARS-BB-A (Area Station) 8" x 8" x 4"
- ARS-BB-M (Master Station) 8" x 8" x 4"



Back Boxes available for larger and retrofit systems

PRODUCT FEATURES

(Surface Collars)

- 18 Gauge 304 Stainless Steel
- 1½ inch Conduit Knock-Out
- One piece design

TECHNICAL DATA

(Surface Collars)

- ARS-SCM-A (Area Station) 9.25" x 9.25" x 2.25"
- ARS-SCM-M (Master Station) 11.25" x 11.25" x 2.25"

Surface Collars available for larger and retrofit systems

