

## 2500 Command Center and Distribution Modules

**Analog Command Center** Two-Way Communication (Area of Refuge)



### Scalable communication system for various building types.

- Central control point for managing emergency calls for up to 116 call boxes.
- Cost-efficient analog home run configuration due to each call box using a single pair of wires.
- Configurable with a main Command Center and multiple Sub-Master Stations for various deployment needs.
- Serves as an off-site caller or an intercom.
- Built-in call queuing allows call boxes to share a single phone line.



### Product Specifications

|                                     | Command Center<br>Surface Mount                                                                                  | Command Center<br>Flush Mount                                                                                                                                                                                                  | Command Center<br>Desk Mount                                     | Distribution<br>Modules                                                                                                        |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Mounting</b>                     | Surface / Wall Mount                                                                                             | Flush Mount / In Wall                                                                                                                                                                                                          | Desk or Wall Mount                                               | Wall or Rack Mount                                                                                                             |
| <b>Dimensions</b>                   | <b>Zones 12, 16:</b><br>15.14" H x 12" W x 6.19" D<br><br><b>Zones 28 - 116:</b><br>21.03" H x 20.3" W x 5.19" D | <b>Zones 12, 16:</b><br>Front Frame:<br>16.06" H x 14" W x 3.07" D<br>Back Box:<br>15.64" H x 12" W x 3" D<br><br><b>Zones 28 - 116:</b><br>Front Frame:<br>21.13" H x 25" W x 3.06" D<br>Back Box:<br>20.66" H x 23" W x 3" D | 9.72" L x 7.20" H x 1.69" D<br>(without stand)                   | <b>12 - 36 Zone System:</b><br>2.04" H x 17.28" W x 11.8" D<br><br><b>56 - 116 Zone System:</b><br>6.83" H x 17.18" W x 8.9" D |
| <b>Weight</b>                       | <b>Zones 10, 16:</b> 16.10 lbs<br><b>Zones 32 - 128:</b> 34.9 lb                                                 | <b>Zones 10, 16:</b> 21.10 lbs<br><b>Zones 32 - 128:</b> 39 lbs                                                                                                                                                                | <b>Zones 12, 16:</b> 1.78 lbs<br><b>Zones 28 - 116:</b> 2.43 lbs | <b>12 - 36 Zone System:</b> 5.55 lbs<br><b>56 - 116 Zone System:</b> 12.30 lbs                                                 |
| <b>Enclosure</b>                    | Powder-Coated Steel with twist lock closure                                                                      | Powder-Coated Steel with twist lock closure                                                                                                                                                                                    | Plastic                                                          | <b>12 - 36 Zone System:</b> Plastic<br><b>56 - 116 Zone System:</b> Powder-Coated Steel                                        |
| <b>Maximum Number of Call Boxes</b> | 1-116 ( a system can facilitate call boxes up to the quantity of Zones)                                          |                                                                                                                                                                                                                                |                                                                  | NA                                                                                                                             |
| <b>Wiring Requirements</b>          | 1 wire pair (22 AWG to 24 AWG) to the distribution module                                                        |                                                                                                                                                                                                                                |                                                                  | <b>Home run:</b> 1 wire pair (22 AWG to 24 AWG) to call boxes                                                                  |
| <b>Maximum Wiring Distances</b>     | 6,200 ft for 22 AWG<br>3,900 ft for 24 AWG                                                                       |                                                                                                                                                                                                                                |                                                                  | 6,200 ft for 22 AWG<br>3,900 ft for 24 AWG                                                                                     |
| <b>Voltage</b>                      | 28 VDC                                                                                                           |                                                                                                                                                                                                                                |                                                                  | 110 VAC                                                                                                                        |
| <b>Power Source</b>                 | Powered by the distribution module                                                                               |                                                                                                                                                                                                                                |                                                                  | 120 VAC power with battery backup or RATH Power Supply with battery backup                                                     |

**Compatible with the Following:** Command Center range including Command Center Call boxes (2400 series) as well as SmartRescue Call Boxes (2100 Series) powered by 2500-PWR24U Power Supply



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## General Specifications

|                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Passive Monitoring Communication</b>                                               | <b>Audible alert:</b> when phones place a call until command center or submaster picks<br><b>LED Solid:</b> Emergency Call Active                                                                                                                                                                                                                                                                                                                                                      |
| <b>Communication Options</b><br><i>*Ring-down style phone lines are not supported</i> | IP Intercom system or an IP phone line when used with an IP interface or single analog phone line from POTS, PBX or central office<br>Or digital phone line, Cellular gateway or VoIP gateway (this must be converted to analog and cable of supporting modem modulated devices before connecting)                                                                                                                                                                                     |
| <b>Phone Line Requirements</b>                                                        | <b>Phone Line Voltage:</b> On-hook 24 VDC to 70 VDC (nominally 48 VDC)<br><b>Phone Line Voltage:</b> Off-hook 8 VDC to 20 VDC (nominally 14 VDC)<br><b>Operating Loop Current Range:</b> 18 mA to 55 mA (20 mA typical)<br><b>Dialing:</b> DTMF (Dual Tone Multi-Frequency)<br><b>Frequency Response:</b> 550 Hz to 3400 Hz, +/- 3 db<br><b>Ring Sensitivity:</b> 30 VAC to 120 VAC RMS<br><b>Operational Loop Impedance:</b> 600 ohms<br><b>Open-Loop Disconnect Signal:</b> @ 500m/s |
| <b>Environmental</b>                                                                  | 32°F to 113°F                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Warranty</b>                                                                       | 2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Code Compliance</b>                                                                | NFPA 72, IBC/ICC, ADA                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|                                     |                 | <b>Main Part Numbers</b> | <b>Submaster Part Numbers</b> | <b>Multiple Submasters Part Number</b> |
|-------------------------------------|-----------------|--------------------------|-------------------------------|----------------------------------------|
| <b>Command Center Surface Mount</b> | <b>Zone 12</b>  | 2500-12RC                | 2500-12B                      | 2500-12RCS                             |
|                                     | <b>Zone 16</b>  | 2500-16RC                | 2500-16B                      | 2500-16RCS                             |
|                                     | <b>Zone 28</b>  | 2500-28RC                | 2500-28B                      | 2500-28RCS                             |
|                                     | <b>Zone 36</b>  | 2500-36RC                | 2500-36B                      | 2500-36RCS                             |
|                                     | <b>Zone 56</b>  | 2500-56XRC               | 2500-56XB                     | 2500-56XRCS                            |
|                                     | <b>Zone 76</b>  | 2500-76XRC               | 2500-76XB                     | 2500-76XRCS                            |
|                                     | <b>Zone 96</b>  | 2500-96XRC               | 2500-96XB                     | 2500-96XRCS                            |
|                                     | <b>Zone 116</b> | 2500-116XRC              | 2500-116XB                    | 2500-116XRCS                           |
| <b>Command Center Flush Mount</b>   | <b>Zone 12</b>  | 2500-12RCF               | 2500-12F                      | 2500-12RCFS                            |
|                                     | <b>Zone 16</b>  | 2500-16RCF               | 2500-16F                      | 2500-16RCFS                            |
|                                     | <b>Zone 28</b>  | 2500-28RCF               | 2500-28F                      | 2500-28RCFS                            |
|                                     | <b>Zone 36</b>  | 2500-36RCF               | 2500-36F                      | 2500-36RCFS                            |
|                                     | <b>Zone 56</b>  | 2500-56XRCF              | 2500-56XF                     | 2500-56XRDFS                           |
|                                     | <b>Zone 76</b>  | 2500-76XRCF              | 2500-76XF                     | 2500-76XRDFS                           |
|                                     | <b>Zone 96</b>  | 2500-96XRCF              | 2500-96XF                     | 2500-96XRDFS                           |
|                                     | <b>Zone 116</b> | 2500-116XRCF             | 2500-116XF                    | 2500-116XRDFS                          |
| <b>Command Center Desk Mount</b>    | <b>Zone 12</b>  | 2500-12NC                | 2500-12D                      | 2500-12NCS                             |
|                                     | <b>Zone 16</b>  | 2500-16NC                | 2500-16D                      | 2500-16NCS                             |
|                                     | <b>Zone 28</b>  | 2500-28NC                | 2500-28D                      | 2500-28NCS                             |
|                                     | <b>Zone 36</b>  | 2500-36NC                | 2500-36D                      | 2500-36NCS                             |
|                                     | <b>Zone 56</b>  | 2500-56XNC               | 2500-56XD                     | 2500-56XNCS                            |
|                                     | <b>Zone 76</b>  | 2500-76XNC               | 2500-76XD                     | 2500-76XNCS                            |
|                                     | <b>Zone 96</b>  | 2500-96XNC               | 2500-96XD                     | 2500-96XNCS                            |
|                                     | <b>Zone 116</b> | 2500-116XNC              | 2500-116XD                    | 2500-116XNCS                           |

