Installation Manual

CliniCare™ System

Installation Manual

N56W24720 N. Corporate Circle • Sussex, WI 53089
800-451-1460 • www.rathcommunications.com

RP8500CCNC
Ver. 4
09/18
Thank you for purchasing RATH’s CliniCare System. We are the largest Emergency Communication Manufacturer in North America and have been in business for over 35 years.

We take great pride in our products, service, and support. Our Emergency Products are of the highest quality. Our experienced customer support teams are available to remotely assist with site preparation, installation, and maintenance. It is our sincere hope that your experience with us has and will continue to surpass your expectations.

Thank you for your business,

The RATH® Team

Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation</td>
<td>3</td>
</tr>
<tr>
<td>System Components &amp; Descriptions</td>
<td></td>
</tr>
<tr>
<td>Annunciator Panel</td>
<td>3</td>
</tr>
<tr>
<td>Power Supply</td>
<td>4</td>
</tr>
<tr>
<td>Dome Light</td>
<td>5</td>
</tr>
<tr>
<td>Pull String Station</td>
<td>6</td>
</tr>
<tr>
<td>Zone Alarm</td>
<td>7</td>
</tr>
<tr>
<td>Uninterruptible Power Supply</td>
<td>8</td>
</tr>
<tr>
<td>T-568B Pin-Out Wiring</td>
<td>9</td>
</tr>
<tr>
<td>Electrical Ratings</td>
<td>10</td>
</tr>
</tbody>
</table>
Installation

1. Connect all Dome Lights to the Annunciator Panel and Switch Stations to Dome Lights using 24 gauge, CAT 5 wire and T-568B pin-out.
   • Maximum distance from Dome Light to Annunciator Panel is 250 feet
   • Maximum distance from Switch Stations to Dome Light is 80 feet

2. When 24vdc power is applied, the green power LED on the Annunciator Panel will illuminate.

3. If a station is activated, the corresponding Dome Light will illuminate. The Annunciator Panel LED and sounder will activate.

4. The sounder is attached to a three position toggle switch with high, low, and momentary mute.

5. If a previously attached switch has its communications interrupted, the corresponding Dome Light will flash purple and sounder will indicate a fault. When any switch is put in place of the missing or defective unit, alarm is silenced.

System Components & Descriptions

2900-6AP Series Annunciator Panel

(6) Inputs from Connected Dome Lights

24vdc from Power Supply

Local Sounder Connection

Back View

T-568B Pin-Out
**Description**
- **Dimensions:** 8.76” H x 12.25” W x 2.81” D
- **Weight:** 5.2 lbs.
- **24vdc, 211W, 8.8 Amp, single output**
- **Switchable input voltage:** 115vac or 230vac
- **LED power indicator**
- **Recommended connection to UPS**
- **Maximum current draw on a fully populated system is 5.75A @24vdc (1.15A @ 120vac)**

**Connections**
- Connect the hot wire of the 120vac to the L screw on the Power Supply
- Connect the neutral wire of the 120vac to the N screw on the Power Supply
- Connect the ground wire of the 120vac to the ground screw on the Power Supply
- Connect one lead of the DC power connection to the –V screw and the other to the +V screw

**Maintenance**
Unit should be tested at least once a year for proper operation as follows:
- **Output Voltage Test:** Under normal load conditions the DC output voltage should be checked for proper voltage level (23.5-26.4vdc recommended range).
*Description*

The Dome Light is used to locally annunciate calls from an associated device. The device has an RJ45 port for connecting a single device. The LEDs give off a bright and clean light that is contained by a white cover.

*Operation*

When an associated device is activated, the Dome Light turns on. The LEDs will light up white. When an associated Switch Station is cancelled, the LEDs will turn off.

*Technical Specifications*

- RJ45 connector
- 24 AWG, 8 conductor
- Dimensions:
  - Face plate: 4-1/2” H x 4-1/2” W (two gang)
  - Minimum back box depth: 2-1/8”

---

**Mount As Shown**

**T-568B Pin-Out**

**In from Annunciator Panel**

**Out to Switch Station**

**Back View**
Description
The Pull String Station comes with a 6’ polyester cord, a heavy-duty slide switch, and a call placed LED. The station only requires a single connection to its assigned Dome Light via an RJ45 connection.

Operation
When the heavy-duty slide switch goes from the UP/OFF position to the DOWN/ON position, the call has been placed. This can be done by pulling the 6’ polyester cord or sliding the switch down. The call placed LED will turn on steady letting the calling party know that the call has been placed. To cancel the call, slide the switch back up to the OFF position.

Defaults
Center LED of Dome Light: White color/medium flash
Local Switch LED: On-steady, priority 2

Technical Specifications
• RJ45 connector/T-568B pin-out
• 24 AWG, 8 conductor (max 80’ to Smart Device connector)
• Min voltage is 0.0vdc if the switch is absent (otherwise min is 0.125vdc)
• Max voltage is 1.0vdc if the switch is shorted (otherwise max is 0.875vdc)
• Dimensions:
  Face plate: 4-1/2” H x 2-3/4” W (single gang)
  Minimum back box depth: 2-1/8”
2900-1ZL Series Zone Alarm

Description
The Zone Alarm is used to locally annunciate calls from associated devices.

Operation
When an associated device is activated, the Zone Alarm turns on. It should be mounted in an area where the audible signal can be heard by appropriate personnel. The three position toggle switch can be used to modify the audio level (momentary mute, high, low).

Technical Specifications
- RJ45 connector
- 24 AWG, 8 conductor
- Dimensions:
  Face plate: 4-1/2” H x 2-3/4” W (single gang)
  Minimum back box depth: 2-1/8”
Specifications

- Dimensions: 3.1” H x 10.6” W x 5.9” D
- Weight: 4.5 lbs.
- Output Power Capacity: 350VA / 255W
- 120vac
- Sealed, lead acid, maintenance free battery
- Underwriters Laboratory (UL) recognized
- RoHS compliant
- Audible alarm
- Battery backup and surge protected outlets keep the system running when the power goes out during an emergency
- Surge only outlet for connection to Power Monitor Board in Host Controller
- Expected run-time assuming 10% system activity on a fully populated system is 58 minutes
T-568B Pin-Out Wiring

PULL STATION

IN

OUT

DOME LIGHT

IN

24 AWG 8 CONDUCTOR CAT5E

Distance shall not exceed 80'

Up to 6 Rooms on one Annunciator

Distance shall not exceed 250'

T-568B

ClinicCare™

6 Zone Annunciator

Power Supply

18/2 Power
## Electrical Ratings

<table>
<thead>
<tr>
<th>Model:</th>
<th>Type of Device:</th>
<th>Voltage:</th>
<th>Current:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2900-6APSS</td>
<td>SS 6 Zone Dialysis Annunciator</td>
<td>24vdc</td>
<td>0.06A max</td>
</tr>
<tr>
<td>2900-6APWH</td>
<td>White 6 Zone Dialysis Annunciator</td>
<td>24vdc</td>
<td>0.06A max</td>
</tr>
<tr>
<td>2900-1PSSS</td>
<td>SS Pull String Station 1G</td>
<td>7.9vdc</td>
<td>2mA max</td>
</tr>
<tr>
<td>2900-1PSWH</td>
<td>White Pull String Station 1G</td>
<td>7.9vdc</td>
<td>2mA max</td>
</tr>
<tr>
<td>2900-1PSIV</td>
<td>Ivory Pull String Station 1G</td>
<td>7.9vdc</td>
<td>2mA max</td>
</tr>
<tr>
<td>2900-1ZLSS</td>
<td>SS Zone Alarm 1G</td>
<td>7.9vdc</td>
<td>2mA max</td>
</tr>
<tr>
<td>2900-1ZLIV</td>
<td>Ivory Zone Alarm 1G</td>
<td>7.9vdc</td>
<td>2mA max</td>
</tr>
<tr>
<td>2900-1ZLWH</td>
<td>White Zone Alarm 1G</td>
<td>7.9vdc</td>
<td>2mA max</td>
</tr>
<tr>
<td>2900-2DLSS</td>
<td>SS Dome Light 2G</td>
<td>7.9vdc</td>
<td>6mA max</td>
</tr>
<tr>
<td>2900-2DLWH</td>
<td>White Dome Light 2G</td>
<td>7.9vdc</td>
<td>6mA max</td>
</tr>
<tr>
<td>2900-2DLIV</td>
<td>Ivory Dome Light 2G</td>
<td>7.9vdc</td>
<td>6mA max</td>
</tr>
<tr>
<td>RP7700100</td>
<td>UPS Cyber Power EC350G</td>
<td>120vac</td>
<td>1500 VA</td>
</tr>
<tr>
<td>2900-PWRS2</td>
<td>Power Supply Mean Well LRS-200-24 (UL E183223)</td>
<td>100-120, 200-240ac, 50/60, output 24vdc, 8.8A</td>
<td>2.2A max</td>
</tr>
</tbody>
</table>