RAMTEL CORP.
PLC-8 LED Architect & Engineering Specifications

1 General Description

1.1 The unit shall be a vandal resistant free standing stainless steel column with built-in blue light, strobe and lighted faceplate. The column shall house an ADA-compliant, line-powered communication device manufactured by Ramtel. Externally-powered devices are not acceptable.

2 Construction

2.1 The unit shall be constructed of 125" thick Non Rusting, Non Magnetic Stainless Steel and weigh approximately 185 lbs.

2.2 The unit shall measure 11" SQ x 108"H with 1" Radius on corners.

2.3 A power coating shall be applied to withstand prolonged exposure to harsh environments.

2.4 A base plate shall be fully welded within the column. The base plate shall be fabricated of .375 Stainless steel. There shall be a 4 1/2" diameter center hole for wiring access and four 7/8" diameter holes for anchor bolt clearance.

2.5 Column shall have a wiring access opening measuring 13 1/8" H x 6 5/8" W, located 20" center distance above the base of the column. The opening shall have a flush cover plate with a wall thickness of .125", held in place by eight 8-32 countersunk, tamper-resistant screws.

2.6 An opening shall be cut in the face of the column for mounting any Ramtel RR-Series emergency phone model. The lower edge of the opening shall slope down 30° from rear to front, making the edge difficult to use as a shelf yet convenient as a writing surface.

2.7 The column shall have a top for easy access to area light & strobe.

2.8 The word "EMERGENCY" shall be emblazoned on all four sides in 2.375" white letters (custom lettering, sizes and colors available).

3 Lighting

3.1 Atop the column shall be two High Power blue LED lighting units.

3.1.1 The High power blue LED light units shall provide a minimum luminous intensity of 155 each and flash no less than 62 flashes per minute when the emergency button on the communication device is pressed and continue flashing until the call has been completed. The two blue LED lights serve as area lights and shall always be illuminated. A deep blue polycarbonate fresnel lens shall distribute the light in a horizontal pattern, making the flash bright and visible even at great distances. The lights shall be situated within the column inaccessible to vandals and weather resistant.

3.1.2 The two High Power blue LED lighting units shall then be further enclosed by four clear polycarbonate lens that measure 8 ½" x 13 ¼" x ¼".

3.2 Phone Panel Light: The column shall have a concealed array of twelve LED's illuminating the emergency phone faceplate at all times and shall be protected by a clear Polycarbonate lens that is attached to the unit by two tamper resistant screws.
4 Electrical

4.1 The communication device shall require no external power. The phone line, PBX extension, or a wireless communication interface shall power it. The requirements shall be 30 ma loop current at the unit, with a line resistance of less than 700 OHMS. A 22 to 26 shielded twisted pair cable shall be used. Longer cable runs shall require a heavier gauge cable.

4.2 The unit shall require 120 VAC and draw a maximum of 3 amperes under normal operation, 4 amps with heater.

4.3 All electrical components shall be push on connectors or wire nuts. All wiring and electrical fixtures comply with the standards of the National Electrical Code, UL.

5 Mounting

5.1 The column shall include four 5/8" x 16" J-bolts for mounting into a 20" X 20" X 3' concrete foundation. J-bolts shall protrude approximately 2 ½" inches from surface of foundation.

6 Warranty

6.1 Equipment shall be warranted against any defects in material and workmanship, under normal use, for a period of Two years from date of purchase. In the event system is found by manufacturer to be defective within the warranty period, manufacturer shall repair and/or replace any defective parts, provided the equipment is returned to manufacturer.
PLC 8A LED INSTALLATION

Power Consumption
200 Watts - 120 Vac
300 Watts - With Heater

Bolt Layout for Column
(4) 5/16" Bolts - 10" Long
Template Provided.

Use Wire Nuts for Electrical
Phone Connections
Wires from Phone

11" Sq. S.S. Column

Provide about 18" Length of PVC Coated
Flexible Conduit From Electrical Conduit
In Base to Connection Box in Column.
Column is Pre-Wired.

Ramtel Corp.
115 Railroad Ave.
Johnston, RI 02919
401-231-3340

16" Ø
18" Sq., Concrete Column
Base Shall Be Surrounded
By Undisturbed Soil or
Back Fill Compacted To
95% Density of Surrounding
Undisturbed Soil.
SECURITY TELEPHONES - ADA Compliant
Standard & Mini

ELEVATOR & COURTESY TELEPHONES

Telephone Features and Functions

Ramtel offers custom requirements and personalized silk screened phone panels.

The Louver design protects phone electronics against inclement weather and vandalism.
(i.e. ice and snow melts down over louver; no poking into the speaker and microphone as could be the case with grill type or hole design.)

Standard Size Phone Models (with and without keypad) are interchangeable in Enclosures, Wall Units and Free Standing Units.

<table>
<thead>
<tr>
<th>Telephone Features</th>
<th>Cellular</th>
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</thead>
<tbody>
<tr>
<td>EEPROM Non volatile Memory</td>
<td>Consists of a transceiver that will interface with any Ramtel phone or column.</td>
</tr>
<tr>
<td>Password protected remote programmable</td>
<td></td>
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<tr>
<td>PIEZO Switches (2&quot; Palm Button Option)</td>
<td></td>
</tr>
<tr>
<td>Chrome Keypad (Standard and Mini)</td>
<td></td>
</tr>
<tr>
<td>Weatherproofed speaker and microphone</td>
<td></td>
</tr>
<tr>
<td>Tamper resistant screws and special tool</td>
<td></td>
</tr>
<tr>
<td>Weather Resistant – Vandal Resistant</td>
<td></td>
</tr>
<tr>
<td>Low Voltage Heater Option</td>
<td></td>
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<tr>
<td>Conformal Coated Electronics per Mil-I-46058C</td>
<td></td>
</tr>
<tr>
<td>Surge Protection</td>
<td></td>
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<tr>
<td>Condensation Protection</td>
<td></td>
</tr>
<tr>
<td>Security &amp; Courtesy Phones:</td>
<td></td>
</tr>
<tr>
<td>Standard: Brushed Anodized Aluminum Panel</td>
<td>3/16&quot; thick - 8.28&quot;w x 11.9&quot;h</td>
</tr>
<tr>
<td>Mini: 3/16&quot; thick - 6.5&quot;w x 8.5&quot;h</td>
<td></td>
</tr>
<tr>
<td>Elevator Phone: Stainless Steel Panel</td>
<td>8.28&quot;w x 11.9&quot;h</td>
</tr>
<tr>
<td>Standard: 18 Gauge</td>
<td></td>
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</tbody>
</table>

Telephone Functions

- Auto-Redial of Additional Numbers, if line is busy or no answer.
- Emergency Call in Progress Cannot be terminated.
- Auto-Dial five (5) button capability.
- Auto-Answer feature allows for call back and monitoring of area.
- Voice and location identification signal.

- ADA Compliant: a) "Red" indicator light automatically activated when any button on Ramtel phone is pressed, and changes to "Green" when call is answered.
  b) Braille Plaque
  c) 
- Disconnect Functions: a) Automatic Shut-Off
  b) Remote Shut-Off
  d) Adjustable Time Out Functions

- Emergency button external output control: (i.e. Blinking or Flashing Strobe)
- Six miscellaneous External Output Control capability. (Activated by keypad and Controlled by called party. (i.e. release door/gate, turn on and control a top mounted surveillance camera).

Phone Line Standards:
- On Hook Voltage must be more than or equal to 48-50V standard.
- Off hook voltage of 10V, a minimum of 30ma must be supplied, with maximum of 45ma as upper limit.

Registered FCC, Conforms to UL1459

<table>
<thead>
<tr>
<th>Operation</th>
<th>Signaling</th>
<th>Loop Start</th>
<th>DTMF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ringer Equivalence</td>
<td>Network Interface</td>
<td>0.4A</td>
<td>RJ11C</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>Relative Humidity</td>
<td>-20C (-4F) to +60C (140F)</td>
<td>to 95% Non condensing</td>
</tr>
</tbody>
</table>
PROPOSED LOCATION OF NEW BLUE LIGHT PHONE – COORDINATE EXACT PLACEMENT LOCATION IN FIELD WITH OWNER
APPROXIMATE LOCATION OF UNDERGROUND ELECTRICAL AND TELECOM CONDUIT. COORDINATE LOCATION IN FIELD WITH OWNER.

DATE: 06/20/13
APPORXIMATE LOCATION OF ELECTRICAL AND TELECOM CONDUIT. COORDINATE PLACEMENT LOCATION WITH OWNER.
MECHANICAL ROOM (TELECOM ROOM ON OTHER SIDE OF THIS WALL)

PROVIDE COILED PHONE LINE ABOVE EXISTING TELECOM TERMINATION BOARDS

TELECOM ROOM (MECHANICAL ROOM ON OTHER SIDE OF THIS WALL)

DATE: 06/20/13