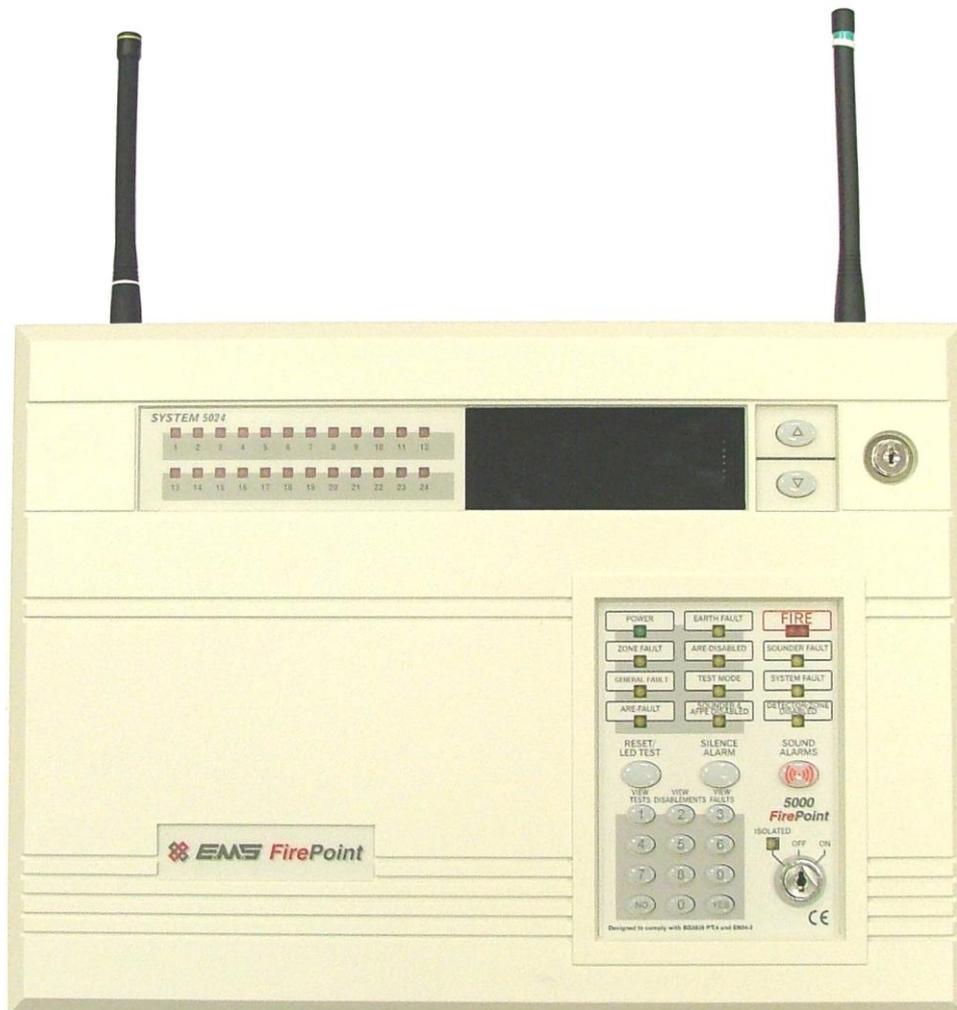




# FirePoint

## 5000



## H/W LAN COMMUNICATION GUIDE

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## **1. Introduction**

This manual describes the installation and programming requirements for a hardwired network system using the 5000 FirePoint control panels.

The EMS system control panels are simply networked together by the 485 BUS via a 2 core screened fireproof cable. This then enables communication between control panels.

## **2. Tools & Equipment**

Only standard hand tools are required to install the connection between the control panels. No special test equipment is needed for installation, although signals from modules can be seen if a computer with a terminal programme is connected to the system.

This gives a visual indication that the panels are transmitting information.

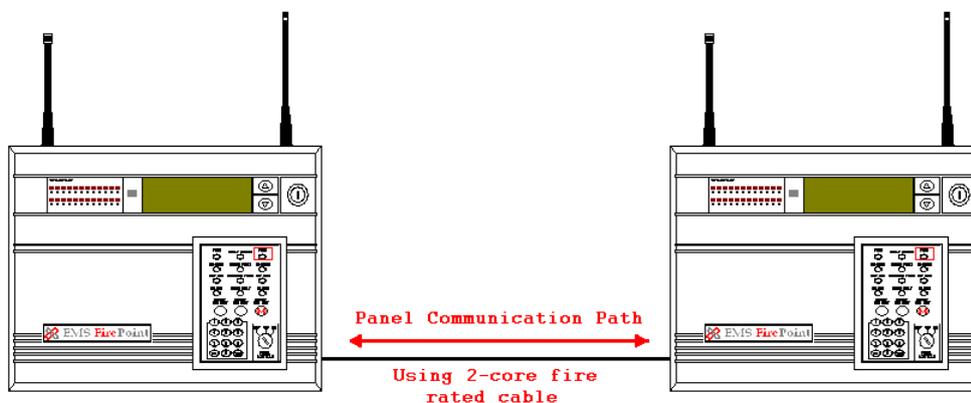
## **3. Electrical Installation**

The EMS 5000 FirePoint Control Panels should be hardwired together using a 2-core cable, as shown in the supplied drawing PO4334.

The following paragraphs outline the installation in a step-by-step format.

When all connections have been made, the battery can be connected and the mains voltage can then be applied.

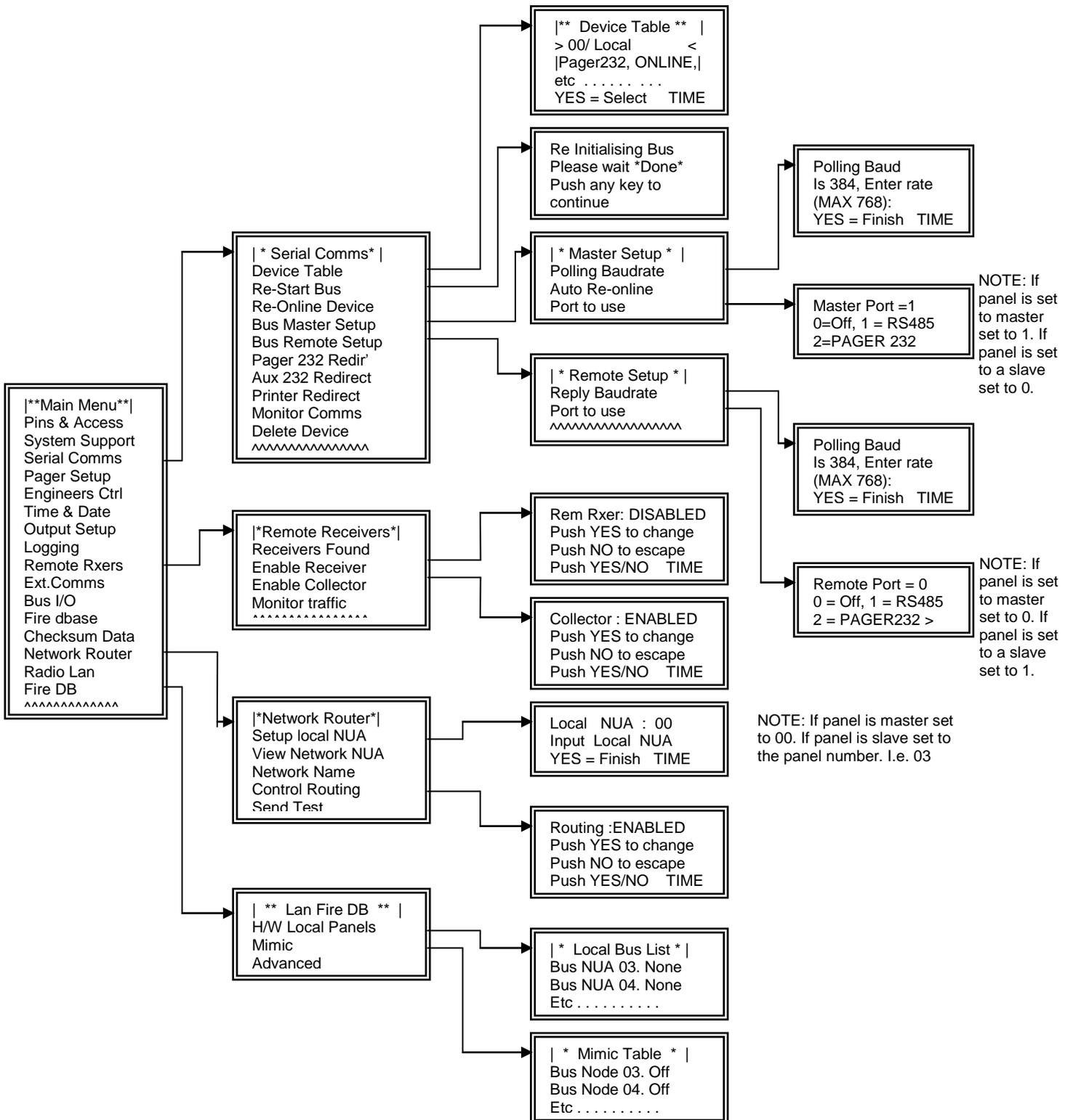
The unit is now ready for the control panel to be configured for Lan operation.



**Figure 1**



**4. Engineers Control Panel Quick Guide for Hardwired LAN Communication**



## **5. Factory Supplied Pre-Programmed Systems**

For a factory set pre-programmed system, there will only be a few steps necessary to online the network path.

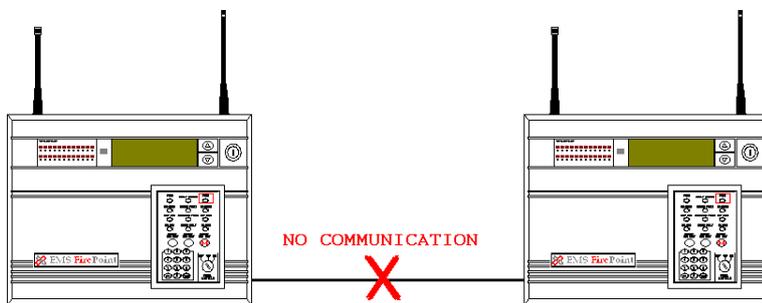
Necessary connections made as shown in diagram number PO4334.

Once the connections have been made, power should be applied to the slave panels followed by the master panel.

On powering up the master panel, the system should automatically go online.

With all the Control Panels powered the master panel will automatically try to re-online the pre-programmed slave panels. This can take up to 5 minutes to complete. With control panels offline an 'OL' fault will be displayed at the master panel. This fault will automatically clear when all panels are online.

## **6. Should a slave panel go offline**



The following type of fault screen should be displayed:

```
01 FAULT TOT 01
Control Panel
Offline
Node : 03 ON H/W BUS
```

At the master panel, turn the control key switch to the "ON" position.

Press the "0" key and scroll down to "Engineers Config".

Press the "YES" key, enter 221100 then press the "YES" key.

Scroll down to "Reset System" and press the "YES" key followed by the "0" key.

Scroll down to "Serial Comms" and press the "YES" key.

Scroll down to "Re-start bus and press the "YES" key.

The bus will be re-started and the screen will display the following when finished:-

```
Re-initialising Bus
Please wait....*Done*
Push any key TIME
```

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Now press the "NO" key and scroll up to "Device Table" and press the "YES" key.

You can now look up the node number within the table to check whether it has been onlined to the network.

If unsuccessful, check the connections in PO4334, between the panel and the LAN unit and repeat the above.

The offline fault should clear from the panel.

### **7. To set up Mimics/Repeaters on the system**

Before you can change any slave panels to mimic panels you have to make sure that the network is communicating with the slave panels.

This is required because messages are sent across the network to configure the mimic function. It is therefore essential that all nodes are online.

If there are any nodes that are offline this will be stated on the main screen as a fault. Any offline nodes will need to be re-onlined. In order to do this you can follow the steps within the previous section: Should a slave panel go offline you can have up to three mimic/repeater panels on each system. To change panel(s) to have this functionality, at the master panel enter the Main menu. Scroll down to Fire DB and press the "YES" key. Now scroll down the Lan Fire DB menu to Mimic and press the "YES" key. Now whilst within the Mimic menu simply scroll down to the nodes you want to change to Mimics. Once found press the "YES" key to change their status from 'OFF' to 'ON'.

**NOTE: Only change the settings of the "BUS nodes" as the "LAN nodes" are for nodes with Radio connection. "BUS nodes" are for Hardwired LAN nodes, which are used for this mimic application.**

This process can be followed for up to three nodes.

The selected nodes will now be set as mimics and you can now exit the menu and return to the main screen.

**8. Main Panel Step By Step Software configuration**

Note: it is assumed that all installation procedures are complete.

Firstly, at the master panel, insert the Key into the Panel’s Control Keyswitch, located at the right of the Panel. Turn the Key to the “ON” Position.

<b>Step No</b>	<b>Action</b>	<b>Screen Display</b>
1	Press the “0” key followed by the “∇” button until the screen displays:	<pre>  Logging   &gt;Fire System Opts &lt;   Remote Access   Yes = select Time</pre>
2	Press the “YES” key and the screen will now display:	<pre>  ** Fire system **   &gt;Dev. Disable/Test&lt;   Net. Disable/Test   Yes= Select Time</pre>
3	Press the “∇” button until the screen displays:	<pre>  System Mode   &gt;Engineers Config &lt;   Printer Options   Yes= Select Time</pre>
4	Press the “YES” key and the screen will now display:	<pre>Enter Your PIN For Access&gt; Then Press YES Time</pre>
5	Enter 221100 then press the “YES” key and the screen will now display:	<pre>  ** Eng. Config **   &gt; Device Database &lt;   Sounder Options   Yes= Select Time</pre>
6	Press the “∇” button until the screen displays:	<pre>  Reset Security   &gt; Reset System &lt;   Lan Options   Yes= Select Time</pre>
7	Press the “YES” key followed “0” key on the Keypad the screen will now display:	<pre> ** Main Menu **   &gt; Pins &amp; Access &lt;   System Support   Yes= Select Time</pre>
8	Press the “∇” button until the screen displays:	<pre>  System Support   &gt; Serial Comms &lt;   Pager Setup   Yes= Select Time</pre>
9	Press the “YES” key. The screen will now display:	<pre> * Serial Comms *  &gt; Device Table &lt;   Re-start bus   Yes= Select Time</pre>

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10 Press the "▽" button until the screen displays:

```
| Re-online Device |
> Bus Master Setup <
| Bus Remote Setup |
Yes= Select      Time
```

11 Press the "YES" key. The screen will now display:

```
| * Master Setup * |
> Polling Baudrate <
| Auto Re-online   |
Yes= Select      Time
```

12 Press the "▽" button until the screen displays:

```
| * Auto Re-online * |
> Port to use       <
| ^^^^^^^^^^^^^^^^^ |
Yes= Select      Time
```

13 Press the "YES" key. The screen will now display:

```
Master Port = 0
0 = Off, 1 = RS485
2 = PAGER 232> _
Yes= Select      Time
```

14 Press the "1" key, followed by the "YES" key. The screen will now display:

```
| * Auto Re-online * |
> Port to use       <
| ^^^^^^^^^^^^^^^^^ |
Yes= Select      Time
```

15 Press the "Δ" button until the screen displays:

```
| * Master Setup * |
> Polling Baudrate <
| Auto Re-online   |
Yes= Select      Time
```

16 Press the "YES" key. The screen will now display:

```
Polling Baud
Is 384, Enter rate
(Max 768): _
Yes= Select      Time
```

17 Press 384 then press the "YES" key. The screen will now display:

```
| * Master Setup * |
> Polling Baudrate <
| Auto Re-online   |
Yes= Select      Time
```

18 Press the "NO" key. The screen will now display:

```
| Re-online Device |
> Bus Master Setup<
| Bus Remote Setup|
Yes= Select      Time
```

19 Press the "▽" button until the screen displays:

```
| Bus Master Setup |
>Bus Remote Setup<
| Pager232 Redir'  |
Yes= Select      Time
```

20 Press the "YES" key and the screen will display:

```
| * Remote Setup * |
>Reply Baudrate   <
| Port To Use     |
Yes= Select      Time
```

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- |    |  |   |
|----|--|---|
| 21 | Press the "▽" button and the screen displays:  | <pre>   Reply Baudrate   &gt; Port To Use   &lt;   ^^^^^^^^^^^^^^  Yes= Select     Time         </pre>        |
| 22 | Press the "YES" key and the screen will display:   | <pre> Remote Port = 0 0 = Off, 1 = RS485 2 = PAGER 232&gt; _ Yes= Select     Time         </pre>              |
| 23 | Whilst the remote port is set to 0, press the "NO" key. Otherwise, enter 0, then press the "YES" key. The screen will display:             | <pre>   Reply Baudrate   &gt; Port To Use   &lt;   ^^^^^^^^^^^^^^  Yes= Select     Time         </pre>        |
| 24 | Press the "NO" key twice and the screen will display:  | <pre>   System Support   &gt; Serial Comms  &lt;   Pager Setup     Yes= Select     Time         </pre>        |
| 25 | Press the "▽" button until the screen displays:  | <pre>   Logging          &gt;Remote Rxers   &lt;   Ext. Comms      Yes= Select     Time         </pre>        |
| 26 | Press the "YES" key. The screen will now display:  | <pre> [* Remote Receivers *] &gt;Receivers Found &lt;   Enable Receiver   Yes= Select     Time         </pre> |
| 27 | Press the "▽" button until the screen displays:  | <pre>   Receivers Found   &gt;Enable Receiver &lt;   Enable Collector  Yes= Select     Time         </pre>    |
| 28 | Press the "YES" key and the screen will display:   | <pre> Rem Rxer : ENABLED Push YES to change Push NO to escape Yes/No      Time         </pre>                 |
| 29 | The Rem Rxer should be set to "DISABLED", press the "YES" key to change. Once set to disabled press the "NO" key. The screen will display: | <pre>   Receivers Found   &gt; Enable Receiver &lt;   Enable Collector   Yes= Select     Time         </pre>  |
| 30 | Press the "▽" button and the screen will display:  | <pre>   Enable Receiver   &gt;Enable Collector &lt;   Monitor Traffic   Yes= Select     Time         </pre>   |
| 31 | Press the "YES" key and the screen will display:   | <pre> Collector: ENABLED Push Yes to change Push No to escape Yes= Select     Time         </pre>             |



43 Press the "YES" key and the screen will display:

```
| * Local Bus List * |  
> Bus Nua 03. None<  
| Bus Nua 04. None |  
Yes= Select      Time
```

Now all of the slave Nua addresses that are being used will require a status change within this bus list. If in use their status should be altered from "None" to "Panel". Whilst the panels are not in use, their status should remain as "None". To change their status: -

44 Press the "Δ" and "∇" buttons to scroll through the Nua addresses that requires altering. Once found press the "YES" key. The status will change from "None" to "Panel". E.g:

```
| * Local Bus List * |  
> Bus Nua 03. Panel<  
| Bus Nua 04. None |  
Yes= Select      Time
```

Now continue this process until all the Nua addresses in use have been changed.

45 Once completed, press the "NO" key. The screen will change to show:

```
| *** Lan Fire DB *** |  
> H/W Local Panels <  
| Mimic              |  
Yes= Select      Time
```

46 Press the "NO" button until the screen displays:

```
Panel In Access  
Date              Time
```

47 Now turn the control keyswitch to the "OFF" position and the screen will display:

```
Status Normal  
Date              Time
```

**9. Slave Panel Step By Step Software Configuration**

Note: it is assumed that all installation procedures are complete.

Now, at the slave panel, insert the Key into the Panel’s Control Keyswitch, located at the right of the Panel. Turn the Key to the “ON” Position.

<b>Step No</b>	<b>Action</b>	<b>Screen Display</b>
1	Press the “0” key followed by the “∇” button until the screen displays:	<pre>  Logging   &gt;Fire System Opts&lt;   ^^^^^^^^^^^^^^   Yes = select Time</pre>
2	Press the “YES” key and the screen will now display:	<pre>  ** Fire system **   &gt;Dev. Disable/Test&lt;   Net. Disable/Test   Yes= Select Time</pre>
3	Press the “∇” button until the screen displays:	<pre>  System Mode   &gt;Engineers Config &lt;   Printer Options   Yes= Select Time</pre>
4	Press the “YES” key and the screen will now display:	<pre>Enter Your PIN For Access&gt; Then Press YES Time</pre>
5	Enter 221100 then press the “YES” key and the screen will now display:	<pre>  ** Eng. Config **   &gt; Device Database &lt;   Sounder Options   Yes= Select Time</pre>
6	Press the “∇” button until the screen displays:	<pre>  Reset Security   &gt; Reset System &lt;   Lan Options   Yes= Select Time</pre>
7	Press the “YES” key followed “0” key on the Keypad the screen will now display:	<pre>  ** Main Menu **   &gt;Pins &amp; Access &lt;   System Support   Yes= Select Time</pre>
8	Press the “∇” button until the screen displays:	<pre>  System Support   &gt; Serial Comms &lt;   Pager Setup   Yes= Select Time</pre>
9	Press the “YES” key. The screen will now display:	<pre> * Serial Comms *  &gt;Device Table &lt;   Re-start bus   Yes= Select Time</pre>

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- |    |   |  |
|----|---|--|
| 10 | Press the "▽" button until the screen displays:   | <pre>  Re-online Device   &gt;Bus Master Setup&lt;   Bus Remote Setup  Yes= Select      Time</pre>     |
| 11 | Press the "YES" key. The screen will now display:   | <pre>  *  Master Setup  *  &gt; Polling Baudrate &lt;   Auto Re-online     Yes= Select      Time</pre> |
| 12 | Press the "▽" button until the screen displays:   | <pre> * Auto Re-online *  &gt; Port to use      &lt;   ^^^^^^^^^^^^^^^^  Yes= Select      Time</pre>   |
| 13 | Press the "YES" key. The screen will now display:   | <pre>Master Port = 0 0 = Off, 1 = RS485 2 = PAGER 232&gt; _ Yes= Select      Time</pre>                |
| 14 | Press the "0" key, followed by the "YES" key. The screen will now display:  | <pre> * Auto Re-online *  &gt; Port to use      &lt;   ^^^^^^^^^^^^^^^^  Yes= Select      Time</pre>   |
| 15 | Now press the "NO" key followed by the "▽" button and the screen will display:  | <pre>  Bus Master Setup   &gt; Bus Remote Setup&lt;   Pager232 Redir'    Yes= Select      Time</pre>   |
| 16 | Press the "YES" key and the screen will display:  | <pre> * Remote Setup  *  &gt; Reply Baudrate &lt;   Port To Use      Yes= Select      Time</pre>       |
| 17 | Press the "YES" key. The screen will now display:   | <pre>Polling Baud Is 384, enter rate (Max 768): _ Yes= Select      Time</pre>                          |
| 18 | Press 384 then press the "YES" key. The screen will now display:  | <pre> * Remote Setup  *  &gt; Reply Baudrate &lt;   Port To Use      Yes= Select      Time</pre>       |
| 19 | Now press the "▽" button until the screen displays "Port To Use" and press the "YES" button. The screen will now display: | <pre>Remote Port = 0 0 = Off, 1 = RS485 2 = PAGER 232&gt; _ Yes= Select      Time</pre>                |
| 20 | Now press the "1" key, followed by the "YES" key. The screen will now display:  | <pre>  Reply Baudrate    &gt; Port To Use    &lt;   ^^^^^^^^^^^^^^^  Yes= Select      Time</pre>       |

EMS 5000 FIREPOINT

21 Now press the "NO" key and the screen will display:

```

| Bus Master Setup |
> Bus Remote Setup<
| Pager232 Redir' |
Yes= Select      Time
    
```

22 Now press the "NO" key and the screen will display:

```

| System Support |
> Serial Comms <
| Pager Setup |
Yes= Select      Time
    
```

23 Now press the "∇" button until the screen displays:

```

| Logging |
>Remote Rxers <
| Ext. Comms |
Yes= Select      Time
    
```

24 Now press the "YES" key and the screen will display:

```

| * Remote Receivers*|
>Receivers Found <
| Enable Receiver |
Yes= Select      Time
    
```

25 Press the "∇" button until the screen displays:

```

| Receivers Found |
> Enable Receiver <
| Enable Collector |
Yes= Select      Time
    
```

26 Press the "YES" key and the screen will display:

```

Rem Rxe : ENABLED
Push YES to change
Push NO to escape
Yes/No      Time
    
```

27 The Rem Rxe should be set to "DISABLED", press the "YES" key to change its status. Once set to "Enabled" press the "NO" key. The screen will display:

```

| Receivers Found |
> Enable Receiver <
| Enable Collector |
Yes= Select      Time
    
```

28 Now press the "∇" button and the screen will display:

```

| Enable Receiver |
>Enable Collector <
| Monitor Traffic |
Yes= Select      Time
    
```

29 Press the "YES" key and the screen will display:

```

Collector: ENABLED
Push Yes to change
Push No to escape
Yes= Select      Time
    
```

30 The collector should be set to "ENABLED", press the "YES" key to change its status. Once set to "Enabled" press the "NO" key. The screen will display:

```

Collector: ENABLED
Push Yes to change
Push No to escape
Yes= Select      Time
    
```

31 Press the "NO" key and the screen will display:

```

| Logging |
>Remote Rxers <
| Ext. Comms |
Yes= Select      Time
    
```

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32 Press the "∇" button until the screen displays:

```
| Checksum Data |  
> Network Router <  
| Radio Lan |  
Yes= Select Time
```

33 Press the "YES" key and the screen will display:

```
| * NETWORK ROUTER*|  
>Setup local NUA <  
| View network NUA|  
Yes= Select Time
```

34 Press the "YES" key and the screen will display:

```
Local NUA : 00  
Input Local NUA  
  
Yes= Finish Time
```

35 This number distinguishes the panels from one another and therefore must be unique to each panel. Now enter the unique nua number between 03 and 31. Now press the "YES" key. The screen will display:

```
| * NETWORK ROUTER*|  
>Setup local NUA <  
| View network NUA |  
Yes= Select Time
```

36 Now press the "∇" button until the screen display:

```
| Network Name |  
>Control Routing <  
| Send Test |  
Yes= Select Time
```

37 Press the "YES" key and the screen will display:

```
Routing: ENABLED  
Push Yes to change  
Push No to escape  
Yes= Select Time
```

38 The routing should be set to "ENABLED", press the "YES" key to change its status. Once set to "Enabled" press the "NO" key. The screen will display:

```
| Network Name |  
>Control Routing <  
| Send Test |  
Yes= Select Time
```

39 Press the "NO" button until the screen displays:

```
Panel In Access  
  
Date Time
```

40 Now turn the control keyswitch to the "ON" position and the screen will display:

```
Status Normal  
  
Date Time
```

**Installation and programming of this Slave Node setup should now be complete.**





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