


## ⑥ Prepare the Job File

Create a list of the ISD's and their location—using a laptop

- Laptop and barcode scanner:** Pre-load the Signalink System Configurator (SSC) software provided on CD with each system. Run SSC on the laptop. Note: the laptop with barcode scanner is not essential, but is highly recommended for speed of installation, accuracy of information, and to have a computer record of the job details. A Barcode Scanner and the Cable Adapter are available in the DEALER KIT
- Scan the VID number of each ISD** and write its intended location on the back label
- Enter the job file, and set up the system:** Consult [077.0045 NMC Programming Manual](#). If using a laptop, also consult [077.0046: Signalink System Configurator User's Manual](#)

**NEED HELP? CALL TECH SUPPORT (888) 765 7514 [support@signalink.com](mailto:support@signalink.com)**

## ⑦ Install the ISDs in each suite (See ISD Installation Q/S Guide)



BUZZER

STATUS light

TEST button

- Introduce yourself: and tell the resident what you are doing
- Select a suitable AC outlet for best audibility, plug it in. **CAUTION! DO NOT PLUG IT INTO AN AC OUTLET THAT CAN BE SWITCHED OFF! FIX THE AC RECEPTACLE IF NEEDED FOR GOOD CONTACT**
- If no-one is sleeping, press TEST and let them hear the alarm
- Explain the light will go green when the system is running

**DO**

- Anchor each ISD using 4 screws, if permitted
- Check for a one flash per second blinking yellow STATUS light after plugging the ISD into a receptacle
- Press the TEST button after plugging the ISD into a receptacle to test the alarm
- Instruct the tenant what the device is and what it does

**Do NOT:**

- Place the ISD over a source of heat such as a base board heater or hot air register
- Place the ISD in direct sunlight
- Install the ISD into a switched receptacle
- Forget to leave behind the resident's instruction "sleeve" to advise the resident what the device is and what it does

## ⑧ Enroll the ISDs and Test & Verify System Operation

- Ensure the system time and date is set correctly, and clear all the log files
- Consult [077.0045 NMC Programming Manual](#) for Enrolment instructions. The act of enrolling the ISDs is fully automatic, and allows the NMC to verify that all ISDs are communicating properly, and that they have good AC power, a good battery, and that the buzzer is working properly (and strobe if fitted).
- Test the complete system using the **ISD TEST ALL** function
- If using the laptop, create and save a **Commissioning Report**

## ⑨ Explain the System to the Building Manager

Give him or her document [077.0025: Building Manager's Guide](#). Explain how to silence troubles and how to resolve local troubles caused by residents' behavior

- Explain the trouble log "LOG" and "VIEW" features:** to see which suite is in trouble

## ① Before going on-site: READ THIS SYSTEM GUIDE FIRST!

Make sure you have the appropriate training, and a site survey

Fire-Link is relatively simple to install. Nevertheless, it is a system and the installer needs to be trained. Inadequate training leads to bad installations and unsatisfied customers:










**Before making a sale, a Site Survey should be written up** after inspecting the building, and submitted to Signalink Technical Support. An approved survey ensures that your installation will be fast and easy. Download from our website [www.signalink.com](http://www.signalink.com)

**Submit Site Surveys to: [support@signalink.com](mailto:support@signalink.com) Fax (250) 491 3895**

Signalink has an on-line training and certification process on its website, and is available by email. **Please take the time to get trained!** It only takes a short while, will give you satisfied customers, and will save your organization time and money

## ② INSTALLATION ESSENTIALS

CHECK YOU HAVE EVERYTHING YOU NEED

 <b>NMC-101 Panel</b> 1 per system (Connects to existing Fire Alarm Control Panel)	 <b>CHK-400 Choke</b> 1 per system (provides filtered power to NMC)	 <b>TPC-101 3-Phase Coupler</b> 1, 2, or 3 per system (one for each transformer)	 <b>ISD 2501UW or ISD-2501UWS Horn only or Horn &amp; Strobe In-Suite Device (ISD)</b> 1 per suite or bedroom, or as per AHJ's instructions
Dealer Kit includes these items			
 <b>Barcode scanner:</b> Makes life much easier!	 <b>USB-Serial Adapter Cable</b> If your laptop has no DB9 serial port, you will need a USB-serial adapter	 <b>Instruction Manuals</b> are provided in hard-copy and on the CD sent with every system	 <b>Laptop SSC software</b> On the CD shipped with every system
			 <b>Laptop</b> You will need to provide a laptop. It makes the job much faster

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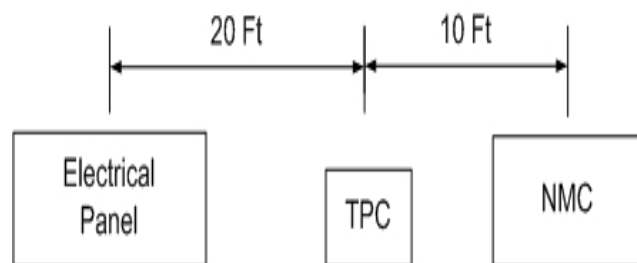
### Decide The Location Of System Components:

Of course, this may be done prior to installation

Consult document 077.0024: NMC and TPC Installation Guide



**NMC:** The NMC needs to be wall-mounted in a secure area with the ability to conveniently wire to the FACP, and near the house panel if possible. The electrical room is usually a good spot. Normally the electrical house panel is typically 20 feet or so from the TPC and NMC. The maximum distance is 200 feet



**Choke:** To be mounted in a junction box near or with the TPC

**TPC:** Normally the TPC is mounted in the same room as the NMC, and then wired to the appropriate panel. If multiple transformers are in the system, each needs a TPC



**Multiple TPCs must be mounted in the same room, within 6 feet of each other,** and interconnected (see below) to ensure the signal splits evenly to each transformer



**Each ISD** is installed in the suite to provide the desired NFPA72 level (75dB minimum at the pillow). Often installed in the main bedroom

**CAUTION! DO NOT PLUG IT INTO AN AC OUTLET THAT CAN BE SWITCHED OFF!**



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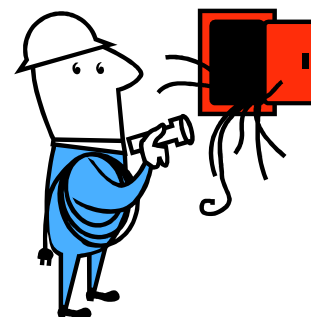
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### Electrical Wiring:

A qualified electrician needs to do this work, including pulling the permit

Consult document 077.0024: NMC and TPC Installation Guide or document 077.0050: TPC Installation Guide (provided with each TPC)

**Overview:** The electrical wiring is straightforward, but too detailed to describe in this Quick-Start Guide. The electrician must be given copies of documents 077.0024 and/or 077.0050, which contains wiring diagrams and instructions for various configurations, including single-transformer and multiple-transformer installations, as well as three-phase and single-phase center-tapped installations. (The two documents have similar electrical wiring contents, except that 077.0024 also has mounting templates)



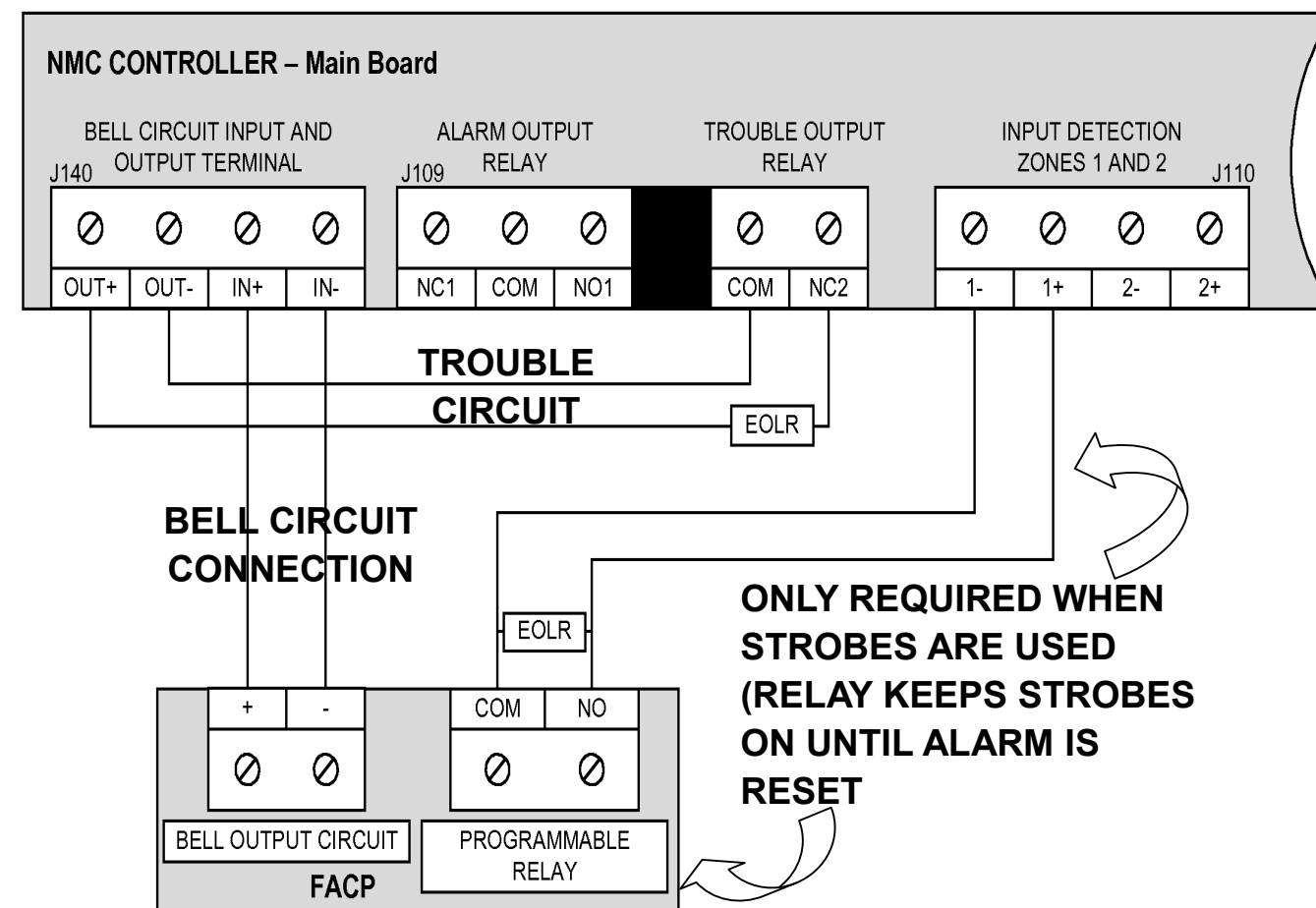
- NMC Power:** NMC Power is always provided via the Choke CHK-400 which has two purposes—it filters the power to the NMC and it prevents the NMC AC source from affecting the strength of the Powerline Communications high-frequency signals
- TPC wiring:** The TPC is connected to the NMC power terminals and splits the power to the various phases of the AC power distribution system. Its function is to split the signals equally to each phase
- Multiple TPCs:** Multiple TPCs, if required, are co-located, as above. They are interconnected by the orange wire to split the signal equally to the transformers

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### Field-wire the NMC to the Fire Alarm Control Panel (FACP)

Consult document 077.0048: NC Fire Alarm Wiring Guide

- NMC Power:** NMC Power is supplied via the Choke, per step 4
- Safety Code:** Do NOT bundle the FACP low-voltage wiring with the AC wiring
- Detailed Instructions:** Consult 077.0048 NMC Fire Alarm Wiring Guide document for detailed instructions and diagrams
- Typical Bell Circuit Wiring:** Typical alarm panel control wiring uses a spare fire alarm Bell Output Circuit connected to the NMC Bell Circuit Input. This allows the FACP to put the NMC into Alarm mode.
- Typical "Trouble" wiring:** The NMC "Trouble" Output is connected through an End-Of-Line (EOL) resistor to the NMC Bell Circuit Output, so that when a Fire-Link trouble is detected it opens the EOL and causes a "Trouble" to the Bell Circuit on the FACP
- When Strobes are used:** An FACP Output Circuit is connected via a Supervised Relay to the NMC Input Circuit Zone #1. An EOL resistor is fitted across the NMC terminals. This allows the strobes to continue flashing even when the FACP silences the alarm. Note: always use relay contacts for this purpose—do not connect the FACP directly to the Zone circuits.



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Technical Support:  
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