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1SCOPE OF THIS MANUAL

This Quick Reference Guide provides basic information about complete equipment schedules and set up details for the Sensa-LINX Detector and details to contact the equipment manufacturer.

2IMPORTANT INFORMATION

2.1 WINDOWS DISKS

The Toughbook computer you have been supplied with does not have an accompanying Windows disk from which to restore it in the event of disk failure (though it does have a recovery partition on the hard disk from which the operating system can be recovered in the event of some disk errors or corruption). It is strongly recommended that you use the Panasonic Recovery Disc Creation Utility to create Recovery disks for your Toughbook. You will need two blank DVDs for this purpose. NOTE that you will only be able to create one set of recovery disks. You should therefore take care not to lose these recovery disks once you have created them.

2.2 USER ACCOUNTS AND PASSWORDS

Your Toughbook computer has been supplied with 2 Windows user accounts – Administrator and User. Both these accounts have been configured to have blank passwords. It is strongly recommended that you should manage user accounts and passwords in accordance with your organization's operating procedures.

2.3 ANTI-VIRUS

Your Toughbook computer has been supplied without any Anti-Virus software. It is recommended that you install anti-virus and security software in accordance with your organization's operating procedures.

3EQUIPMENT OVERVIEW

The Sensa-LINX Detector Networking System has been designed to allow a number of LCD 3.3 detectors (with or without Power/Comms Adaptors (PCA) or Adaptor Pouches) and LCD-NEXUS detectors to be combined as a network, wirelessly connected to a single location to provide centralized recording of data, and control and monitoring of the detectors. Each detector is connected to a specialized radio modem. This set up is termed a Sensor Node which communicates with a radio modem connected to the Controller Laptop at the central monitoring location. This central monitoring location is termed the Base Station Node. The Controller Laptop has the Command & Control (C2) program installed that records, interprets and displays the data supplied by the detectors via the Sensor Node radio modems. The data acquired from the network of detectors can then be used to produce Chemical, Biological, Radiological Nuclear and Explosives (CBRNE) reports.

It is important to note that the data transmissions from the Sensor Nodes can be intercepted, however these transmissions are encrypted using the Sensa-LINX system and cannot read by other agencies.

The radio modems have built-in Global Positioning System (GPS) receivers to obtain position co-ordinates from GPS satellites and display their position on a GIS map. Functioning GPS is not vital to the operation of the Sensa-LINX system. The GPS receiver is activated at startup but may be disabled to conserve battery power if the Sensor Node is used on a Fixed Installation. If the Sensor Node is used in a mobile situation the GPS signal will update the Sensor Node's position when movement is detected.

Depending on the type of radio modem used the network may be either a mesh network or a non-mesh network. In a mesh network the radio modems within transmission range of the Base Station Node 'repeat' the signals from the radio modems of Sensor Nodes beyond the nominal transmission range or where there are 'line-of-sight' problems. In non-mesh networks all of the Sensor Nodes must be within the nominal transmission range with no 'line-of-sight' problems.

4SETTING UP THE BASE STATION AND BASE STATION SENSOR NODE

Unpack from the C2 Transit Case:

- The C2 Laptop
- One Sensor Node
- One Battery Cassette
- 4 AA Batteries
- The C2 comms cable



Figure 1 - Sensa-LINX Base Station Kit

Insert batteries into the Sensor Node.



Figure 2 - Sensor Node (Battery Insertion)

Connect the Sensor Node to the C2 laptop with the data cable.



Figure 3 - Base Station Laptop Cable Connection



Figure 4 - Base Station Sensor Node Cable Connection



Figure 5 - Base Station Set Up

Start-up the C2 laptop, login and start-up the C2 application.

ile Reports Preferences Windows Tools Help Connect Connect Add - Remove Reset Netw ath SN Number SN Label S SN. SN Status SN Battery SN Signal SN Faults Last Seen SU Battery SU Alerts SU Faults P	File Reports Preferences Windows Tools Help Image: Connect in Add + image: Connect in	File Reports Preferences Windows Tools Help		sa-LINX C2									
insor nodes (0 selected) ath SN Number SN Label S S SN Status SN Battery SN Signal SN Faults Last Seen SU Battery SU Alerts SU Faults P	0 sensor nodes (0 selected) Connect d Add - X Remove Reset Netwo Health SIN Number SIN Label S S SIN Status SIN Battery SIN Signal SIN Faults Last Seen SU Battery SU Aerts SU Faults P Battery Comme Battery Comme Battery Digit level Signal Battery Add tatus Battery Battery Add tatus Battery Battery Battery Battery Battery Add tatus Battery B	0 sensor nodes (0 selected) Connect ⊈ Add - Kennove Ø Reset Networ Health SIN Number SN Label S. S., SIN Status SN Battery SN Signal SN Faults Last Seen SU Battery SU Aerts SU Faults P Base Number SN Label S. S., SIN Status SN Battery SN Signal SN Faults Last Seen SU Battery SU Aerts SU Faults P Base Status SN Battery SN Signal SN Faults Last Seen SU Battery SU Aerts SU Faults P Base Status SN Battery SN Signal SN Faults Last Seen SU Battery SU Aerts SU Faults P Base Status SN Battery SN Signal SN Faults Last Seen SU Battery SU Aerts SU Faults P Base Status SN Battery SN Signal SN Faults Last Seen SU Battery SU Aerts SU Faults P Battery SN Signal SN Faults Last Seen SU Battery SU Aerts SU Faults P Battery SN Signal SN Faults Last Seen SU Battery SU Aerts SU Faults P Battery SN Signal SN Faults Last Seen SU Battery SU Aerts SU Faults P Battery SN Signal SN Faults Last Seen SU Battery SU Aerts SU Faults P Battery SN Signal SN Faults Last Seen SU Battery SU Aerts SU Faults P Battery SN Signal SN Faults Last Seen SU Battery SU Aerts SU Faults P Battery SN Signal SN Faults Last Seen SU Battery SU Aerts SU Faults P Battery SN Signal SN Faults Last Seen SU Battery SU Aerts SU Faults P Battery SN Signal SN Faults Last Seen SU Battery SU Aerts SU Faults SU Faults P Battery SN Signal SN Signal SN Faults Last Seen SU Faults SU Faults SU Faults P Battery SN Signal SN Faults SN Signal SN Faults Last Seen SU Faults SU Faults SU Faults P Battery SN Signal SN Faults SN Signal SN Signal SN Faults SN Signal SN Faults SN Signal SN Faults SN Signal SN Signal SN Faults SN Signal S	File Reports Prefe	ferences Wind	dows Tools He	lp					4 Alarm S	ounds English	(United Stat
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	Batery Concentration (mg/m) Ofaults Ofaults Difaults	Base: Batery Comma Ught level Batery Conservation (mg/m) Detection mode Hazard Level	Health SN Nur	lumber SN Label	S S	SN Status	SN Battery SN Signal	SN Faults	Last Seen	SU Battery	SU Alerts	SU Faults	P
	Base: Image: Comms Node: Image: Comms Sensor: Battery Battery Battery Battery Image: Comms Light level Light level Agents (1-3) Errors Brors Light level Battery Ofaults Ofaults Operation Status Dosage (mg min./m)	Base: Image: Comma Node: Image: Comma Sensor: Battery Battery Battery Battery Light level Battery Agents (1-3) Errors Signal Light level Errors Errors Concentration (mg/m) Mobility Operational Status Dosage (mg min/m) Ofaults Ofaults Ofaults											
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Comms Light level Alert status Agent ID ht level Signal Light level Bar level Image: Concentration (mg/m ²) Errors Errors Audio level Concentration (mg/m ²) Image: Concentration (mg/m ²)	Ofaults Detection mode Hazard Level	Ofaults Detection mode Hazard Level Ofaults	Base: A Battery Comms Light level Errors		Node: Battery Light level Signal Errors		Sensor: Battery Alert status Light level Audio level		Agents (1-3)	Agent ID Barlevel [
Comms Light level Alert status Agent ID Agent ID ht level Signal Light level Bar level Image: Concentration (mg/m²) Image: Concentra		↑ 0 faults	Base: Battery Comms Light level Erros 0 faults		Node: Battery Light level Signal Errors Mobility		Sensor: Battery (Alert status Light level Audio level Operational Status		Agents (1-3) Concentratio Dosage (m	Agent ID Barlevel nn (mg/m?) g min./m?)			
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Comms Light level Alert status Agent ID ht level Signal Light level Barlevel Image: Comms of the status Errors Errors Audio level Concentration (mg/m ²) aults Mobility Operational Status Dosage (mg min /m ²) Offaults Detection mode Hazard Level Image: Comms of the status		+ +	Base: A Battery Comms Light level Errors O faults		Node: Battery Light level Signal Errors Mobility 0 faults		Sensor: Battery Alert status Light level Audio level Operational Status Detection mode 0 faults		Agents (1-3) Concentratio Dosage (m Hay	Agent ID Barlevel on (mg/m?) g min./m?) card Level			

Figure 6 - Sensa-LINX Detector Networking System – C2 Application Main Window

Turn on the sensor node and press the "Connect" button.



Figure 7 - Sensa-LINX Detector Networking System – C2 Application Main Window – Sensor Node 'Connect' Button

Select the COM port (COM1 for the provided Sensa-LINX laptop) and press OK.

Connect
COM port COM1 -
OK Cancel

Figure 8 - Sensa-LINX Detector Networking System - Connect Dialog

Wait for the basestation to show that it is connected to the C2.

Base: 🛕 🚺 🗹 🕄
Battery
Comms
Light level
Errors
0 faults
A
-

Figure 9 - Sensa-LINX Detector Networking System – Base Station information Window

At the C2 press the "Add" button and select either "Add Single sensor Node..." or "Add Multiple Sensor Nodes".

	Connect Add Remove Reset Network Add single sensor node Add multiple sensor nodes
--	--

Figure 10 - Sensa-LINX Detector Networking System - C2 Application Main Window - Sensor Node 'Add' Button

Enter the serial number(s) of the sensor nodes that you want to be on the network.

Add Single Sensor Node	Add Multiple Sensor Nodes
Label Location Group location	Last serial number Group location Sensor attached Yes
OK Cancel	OK Cancel

Figure 11 - Sensa-LINX Detector Networking System – Add Single and Add Multiple Sensor Node Dialogs

Use optional accessories as required

E.g. pouch for the Sensor Node, tripod, power supply for laptop and power supply for sensor node. See full manual for details.

5SETTING UP THE SENSOR NODE USING LCD NEXUS

Unpack from the Sensor Node Transit Case:

- One Sensor Node
- One Battery Cassette
- 4 AA Batteries
- A Sensor node to detector comms cable (different types are available)

Also required (not part of Sensa-LINX): LCD Nexus detector with battery cassette and batteries.



Figure 12 - Sensor Node with LCD Nexus Kit

Insert batteries into the Sensor Node and detector.



Figure 13 - Sensor Node (Battery Insertion)

Connect the Sensor Node to the detector with the data cable. Use optional accessories as required E.g. pouch for the Sensor Node, tripod and power supply for sensor node. See full manual for details.



Figure 14 - Sensor Node with LCD Nexus Set Up

Turn on the detector and the Sensor Node. Confirm that the detector reports that the sensor node is connected (U displayed in the upper left hand corner of the detector screen).

Confirm that the Sensor Node indicates communication with the Base Station (T LED flashes. Refer to the detector Operators Manual for further information).

6SETTING UP THE SENSOR NODE USING LCD3.3 WITH DOCK AND POUCH

Unpack from the Sensor Node Transit Case:

- One Sensor Node
- One Battery Cassette
- 4 AA Batteries
- A Sensor node to detector comms cable (different types are available)

Also required (not part of Sensa-LINX): LCD3.3 detector with battery cassette and batteries and Dock and Pouch.



Figure 15 - Sensor Node with LCD3.3 and Dock and Pouch Kit

Insert batteries into the Sensor Node and detector.



Figure 16 - Sensor Node (Battery Insertion)

Connect the Sensor Node to the detector with the data cable. Use optional accessories as required e.g. pouch for the Sensor Node, tripod and power supply for sensor node. See full manual for details.



Figure 17 - Sensor Node with LCD3.3 and Dock and Pouch Set Up

Turn on the detector and the Sensor Node. Confirm that the detector reports that the sensor node is connected (U displayed in the upper left hand corner of the detector screen).

Confirm that the Sensor Node indicates communication with the Base Station (\mathbf{X} LED flashes. Refer to the detector Operators Manual for further information).

7SETTING UP THE SENSOR NODE USING LCD3.3 AND POWER COMMS ADAPTOR

Unpack from the Sensor Node Transit Case:

- One Sensor Node
- One Battery Cassette
- 4 AA Batteries
- A Sensor node to detector comms cable (different types are available)

Also required (not part of Sensa-LINX): LCD3.3 detector with battery cassette and batteries and Power Comms Adaptor (PCA).



Figure 18 - Sensor Node with LCD3.3 and Power Comms Adaptor Kit

Insert batteries into the Sensor Node and detector.



Figure 19 - Sensor Node (Battery Insertion)

Set up the LCD3.3 Detector and PCA. Refer to the LCD3.3 Detector Operators Manual and PCA Operators Manual for further information.

Connect the Sensor Node to the PCA with the data cable. Use optional accessories as required E.g. pouch for the Sensor Node, tripod and power supply for sensor node. See full manual for details.



Figure 20 - Sensor Node with LCD3.3 and Power Comms Adaptor Set Up

Turn on the detector and the Sensor Node. Confirm that the detector reports that the sensor node is connected (U displayed in the upper left hand corner of the detector screen).

Confirm that the Sensor Node indicates communication with the Base Station (\mathbf{T} LED flashes. Refer to the detector Operators Manual for further information).



Figure 21 - Sensor Node with LCD3.3 and Power Comms Adaptor Set - in situ examples

8SETTING UP THE SENSOR NODE USING CAM XTR DETECTOR

Unpack from the Sensor Node Transit Case:

- One Sensor Node
- One Battery Cassette
- 4 AA Batteries
- A Sensor node to detector comms cable (different types are available)

Also required (not part of Sensa-LINX):CAM XTR detector with battery cassette and batteries.



Figure 22 - Sensor Node with CAM XTR and Dock and Pouch Kit

Insert batteries into the Sensor Node and detector.



Figure 23 - Sensor Node (Battery Insertion)

Connect the Sensor Node to the detector with the data cable. Use optional accessories as required E.g. pouch for the Sensor Node, tripod and power supply for sensor node. See full manual for details.



Figure 24 - Sensor Node with CAM XTR and Dock and Pouch Set Up

Turn on the detector and the Sensor Node. Confirm that the detector reports that the sensor node is connected (U displayed in the upper left hand corner of the detector screen).

Confirm that the Sensor Node indicates communication with the Base Station (T LED flashes. Refer to the detector Operators Manual for further information).

9MONITORING THE SENSA-LINX NETWORK

At the C2 computer, check the overall sensor nodes status in the list view.

Green Sensor Nodes are working normally. Yellow Sensor Nodes have a warning. Orange Sensor Nodes have a fault. Red Sensor Nodes are alarming. Grey Sensor Nodes are not communicating with the Basestation.

Health 🔺	SN Number	SN Label	SN Location	SN Group	SN Status	SN Battery	SN Signal	SN Faults	SU Battery	SU Alerts	SU Faults	Pending	
💼 Alarming	2				Connected	100%	0 dBm		4 Bars	NEW ALERT			
🚊 Has Faults	3				Connected	100%	0 dBm		4 Bars	None	Change Sieve Pack		
📋 Has Faults	5				Connected	100%	0 dBm	Battery Critical					
📋 Has Warnin	4				Connected	100%	0 dBm		4 Bars	None	Sieve Low		
💼 Working	1				Connected	100%	0 dBm		4 Bars	None			
💼 Working	6				Connected	100%	0 dBm		4 Bars	None			
💼 Working	7				Connected	100%	0 dBm		4 Bars	None			

Figure 25 - Sensa-LINX Detector Networking System – C2 Application – Sensor Node Panel

At the sensor location, check the sensor node status using the LEDs:

		TABLE 1 LED Functions
		OGPS T I Illuminated icons as viewed on front of Radio Modem
Icon and	dLED	Function
0	Green LED - Power	On - External power. Pulse - Battery Power. Off – Radio Modem switched off or no power
GPS	Green LED – GPS, BIT Indicator	Off – GPS device currently acquiring lock. Single Pulse – GPS device currently in low power mode. Double Pulse – GPS device currently has poor fix. Triple Pulse – GPS device currently has good fix. Long Pulse (3 seconds on, 1 second off) – GPS BIT errors detected
ፚ	Green LED - Radio Link Indicator	Short Triple Pulse - Strong radio link achieved and Sensor Node is transmitting. Long Triple Pulse - Strong radio link achieved but Sensor Node is not transmitting. Short Double Pulse - Good radio link achieved and Sensor Node is transmitting. Long Double Pulse - Good radio link achieved but Sensor Node is not transmitting. Short Single Pulse - Poor radio link has been achieved and Sensor Node is transmitting. Long Single Pulse - Poor radio link has been achieved but Sensor Node is not transmitting.
Ň	Amber LED - Battery Low	Pulse - Low battery power. Off - Good battery power or external power.

On the C2 computer, open a map file to see the sensor node locations.

Select "Windows" / "Show Map 1" and then browse to the location of a window file.



Figure 26 - Sensa-LINX Detector Networking System – C2 Application Main Window

Click on Sensor Nodes from the list or the map to check their detailed status.

Led3332 : 100	2) 🧭 💷 💥 😂
Be	ttery	Agents (1-3)	
Alert st	atus NEW ALERT	Agent ID GA	
Light	evel Dusk	Barlevel	
Audio	evel High	Concentration (mg/m²)	
Operational St	atus Sampling	Dosage (mg min./m²)	
Detection r	ode Standard	Hazard Level	
0/	aults		

Figure 27 - Sensa-LINX Detector Networking System – C2 Application – Sensor Node Information Panel

Open Alarm, Warnings or Events windows to see historical data:

Select "Windows / Alarms" - a list of alarms that occurred in the past.

-	and the second second second												100	
5 alarm entries	es (2 active, 0 selected)	Alarm	History	Active	Alarms			10	Silence	Local Alarm	Silence	Sensor Alan	m 📄 ATP-4	5 🦸 Clear Log
Тіте	Alam Date/Time	SN num.	SN la.	SN lo	SN	Latitude	Longitude	Agent	Bara	Туре	Dosage	Hazard	Reported	Concentration
11-03 14:41:40Z	2011-11-03 14:41:40Z		2			39'17'2	77'19'5.	GB	4	Update	1.100	Low	No	0.060
11-03 14:40 16Z	2011-11-03 14:40:16Z	1	2			39'17'2	77'19'5	GB	5	Alarm	1,100	Low	No	0.088
11-03 14:40:17Z	2011-11-03 14:40:17Z		2			39'17'2	77'19'5	GB	5	Update	1,100	Low	No	0.088
11-03 14:40:17Z	2011-11-03 14:40:17Z		2			39'17'2	77'19'5	GB	5	Update	1.100	Low	No	0.088
11-03 14:41:08Z	2011-11-03 14:41:08Z					39'16'5	77'19'1	VX	- 4	Alarm	0.500	Low	No	0.300
							m		_				Y	

Figure 28 - Sensa-LINX Detector Networking System – C2 Application– Alarms Window

Select "Windows / Warnings" - a list of errors that occurred.



Figure 29 - Sensa-LINX Detector Networking System - C2 Application - Warnings Window

Select "Windows / Events" - a list of other events that are not alarms or warnings.

Events		
4 events (0 selected)		🐓 Clear Log
Date/Time Object Operation [2009-06-03-13-03-00] Modern 00002 Send Lights	Details Outstation failed to acknowledge	

Figure 30 - Sensa-LINX Detector Networking System – C2 Application – Events Window

An alarm will cause a warning window to appear and a warning sound to occur.



Figure 31 - Sensa-LINX Detector Networking System – C2 Application – Alarm Pop Up

To silence the alarm at the PC (but leave the alarm sounding at the detector) Click "Silence Local Alarm" on the Alarms Window



Figure 32 - Sensa-LINX Detector Networking System – C2 Application Main Window –'Silence Local Alarm' Button

To silence the alarm at the Detector Click "Silence Sensor Alarm" on the Alarms Window or the Icon on the Sensor Pane

Silence Local Alarn Silence Sensor Alarm ATP-45 & Clear Log Longitude Agent Bars Sensor Alarm Dosage Hazard Level D122/37/35 W GA 3					
Longitude Agent Bars Concentration Dosage Hazard Level	💥 Sile	nce Local Alar	n 📓 Silence Sensor Alarm	ATP-45	🍠 Clear Log
	Longitude 8°22'37'36 w	Agent 6A	Bars Concentration	Dosage	Hazard Level
					>

Figure 33 - Sensa-LINX Detector Networking System – C2 Application Main Window – 'Silence Sensor Alarm' Button

Lcd33J2 : 1002	1002	() 🗹 🎟 🕱 🕱
Battery Alert status Light level Audio level Operational Status Detection mode	Battery Agents (1-3) ert status NEW ALERT Agent ID Gr/ ight level Dusk Bar level Imit udio level High Concentration (mg/m²) Imit al Status Sampling Dosage (mg min./m²) Imit ion mode Standard Hazard Level Imit		
0 faults	O faults		

Figure 34 - Sensa-LINX Detector Networking System – C2 Application – Sensor Node Panel in Alarm Condition

To prevent the audible alarm occurring at the PC in future:

Click the Icon on the Main Pane (or turn the PC volume down):

• 0	Alarm Sour	nds English (United State: * Remove * Reset Network	
SU Alerts	SU Faults	Pending	
NEW ALERT			
None	Change Sieve Pack		

Figure 35 - Sensa-LINX Detector Networking System – C2 Application – Sensor Node 'Alarm Sounds' Button

10 BASIC TROUBLESHOOTING

In the event that equipment appears not to be functioning correctly

- 1 Make sure that equipment has a suitable power supply either fresh batteries or an appropriate mains power supply.
- 2 Make sure that equipment is correctly set up and connected together.
- 3 Make sure that equipment is switched on.
- 4 Cycle the power on/start up routine.

If equipment still appears not to be functioning correctly refer to the Sensa LINX Operational Instructions/User Manual for further Fault Analysis information.

nortostab **zdtimz**

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