

Specto-XT Controls

Specto-XT Programmer

GB - CLASS II LASER. DO NOT STARE INTO BEAM
FR - LASER DE CLASSE 2. NE PAS REGARDER LE FAISCEAU
DE - LASERKLASSE II. BITTE NICHT IN DEN STRAHL BLICKEN
SE - KLASS 2 LASER. TITTA INTE IN I LASERSTRÄLEN
ES - LASER CLASE II. NO MIRE FUJAMENTE AL RAYO
NL - KLASSE 2 LASER PRODUCT. STAAR NIET IN DE STRAAL
NO - KLASSE II LASER. STIRR IKKE INN I LYSKILDEN
PL - LASER KLASZY II. NIE PATRZEC PROSTO W PROMIEN



INTRODUCTION TO THE SPECTO-XT SYSTEM

The Specto-XT system provides a simple, effective means of controlling luminaires independently or in groups (zones).

SPECTO-XT LUMINAIRES

The Specto-XT Programmer allows alteration of the factory set values to tailor the installation to the users requirements.

Specto-XT compatible emergency luminaires can be programmed, tested and diagnosed with the Specto-XT Programmer.

THE SPECTO-XT PROGRAMMER

The Specto-XT Programmer has six 'touch pad' buttons.

DISPLAY

On the first LCD line the menu point is displayed. On the second line, the status line, the possible settings for this menu point are shown. During a data transmission, the actual transmission status (as well as any error messages) is shown.

TECHNICAL DATA

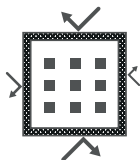
- Dimensions : 198 x 121 x 52mm
- Power : 4-off AA/1.5V Battery (supplied)



ESSENTIAL CONFIGURATION

Each Specto-XT device requires programming with three addresses. Programming is carried out using the Programmer. In order to prevent areas of a building inadvertently communicating it is essential that addresses are correctly set and we recommend they are recorded for future reference.

1. ESSENTIAL



BUILDING ADDRESS

Identifies devices that are within the same system and forms the boundary for the wireless mesh to prevent adjacent buildings communicating.

The building address can be set between 1-254.

2. ESSENTIAL



GROUP ADDRESS

The control group, all luminaires with the same building address and the same group address will work together. Up to 254 different groups can be created in one building.

The group address can be set between 1-254.

3. ESSENTIAL



DEVICE ADDRESS

The unique device address within each group. This is used to identify individual luminaires within a group.

The device address can be set between 1-254.

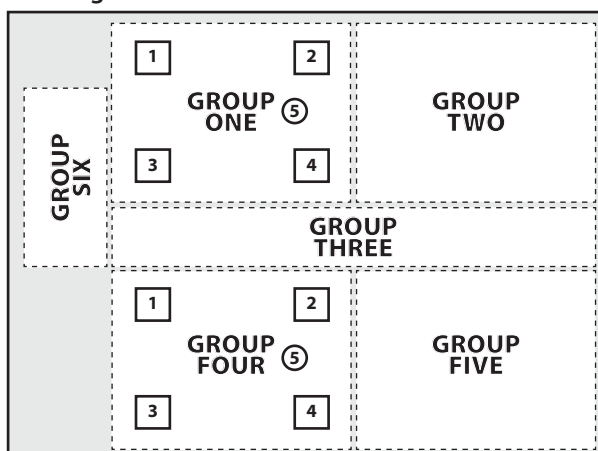
4. ESSENTIAL

Enable RF communications.

BUILDING, GROUP & DEVICE ADDRESS - Example

= Building = Group = Device

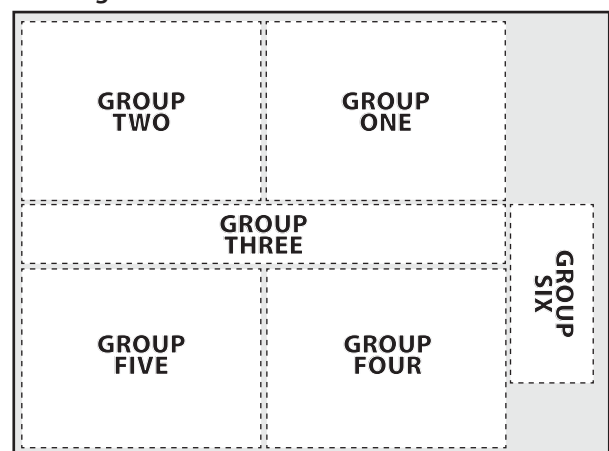
Building 1



BUILDING 1

All luminaires within groups 1-6 have their building address set to 1, and their relevant group address set. This will ensure that all lights in Building 1, and only Building 1, communicate within their group, but groups do not communicate with each other. The device address is used to identify individual luminaires on the system.

Building 2



BUILDING 2

By setting the building address to 2, these luminaires will not communicate with the adjacent building. All luminaires within a group will communicate, but groups will remain separate.

SPECTO-XT

GENERAL - Specto-XT adds wireless communication capability to Specto-XT emergency luminaires.

Specto-XT uses wireless mesh technology to provide unrivalled wireless performance, the following wavelengths are used:

868MHz in EU countries
922MHz in Australasia

The Specto-XT plug on module is factory installed within the luminaire.

DEFAULT SETTINGS - Each Specto-XT luminaire is delivered without any addresses set and radio (RF) communications disabled. It is important to set addresses correctly.









SPECTO-XT EMERGENCY LUMINAIRES

The programmer can be used to commission, test and interrogate Specto-XT emergency luminaires.

To commission emergency luminaires use the Specto-XT Emergency menu.

To perform manual testing and fault diagnosis on emergency luminaires use the Emergency Status menu.

TO INITIATE A FUNCTION OR DURATION TEST

	FUNCTION	BUTTON	DISPLAY
1	Switch on the Programmer		IRPR Version 1.90
2	Scroll to the <Emergency Status> menu		<Emergency Status>
3	Select the menu <Emergency Status>		Start function test
4	To start function test press send		Start function sending...
5	Scroll to start duration test		Start duration test
6	To start duration test press send		Start duration sending...
7	To stop a function or duration scroll to stop test		Stop test
8	Press send		Stop test sending...

SPECTO-XT INDICATORS

EVENT	DEFAULT BEHAVIOUR	IF ENABLED BY SPECTO-XT PROGRAMMER
RF transmitted	LEDs OFF	Blue LED - flashes once
RF received	LEDs OFF	LEDs OFF
RF inhibit	LEDs OFF	Yellow LED - flashes once every 8 seconds
Join/leave/ping network request	Blue LED - flashes for a maximum of 60 seconds	Blue LED - flashes for a maximum of 60 seconds
Join/leave/ping network successful response	Emergency: Amber LED - flashes 10 times <i>NOTE: If no response is received after 60 seconds, the LED stops flashing, and reverts to normal display (as defined above based on Short Address).</i>	Emergency: Amber LED - flashes 10 times
Join/leave/ping network unsuccessful response	Emergency: LEDs OFF	Emergency: LEDs OFF

MENU OPTIONS - SENSORS AND EMERGENCY MENU:

DOWNLOAD ALL - Downloads all settings into the programmer.

PROGRAM ALL - Uploads all settings to the Specto-XT luminaire.

BUILDING ADDRESS - Identifies devices that are within the same system and forms the boundary for the wireless mesh to prevent adjacent buildings communicating. The building address can be set between 1-254.

GROUP ADDRESS - The control group, all luminaires with the same building address and the same group address will work together. Up to 254 different zones can be created in one building. The group address can be set between 1-254.

DEVICE ADDRESS - The unique device address within each group. This is used to identify individual luminaires on the system. The device address can be set between 1-254.

READ UNIQUE DEVICE ID (UDID) - When a luminaire is connected to the Specto-XT Gateway via the mesh network it is issued with a unique device ID number. This is used by the system to track luminaires if group or device addresses are changed by the user. The 'UDID' can be between 1 and 500.

RF TRANSMIT - All Specto-XT luminaires are delivered with RF disabled. RF must be enabled after addresses are set to allow communication.

RADIO LED - Radio traffic indication is turned off by default to avoid user nuisance. It can be enabled for commissioning and testing purpose.















JOIN RADIO NETWORK - Sends a join request from the luminaire to the Specto-XT Gateway. Once accepted the Gateway will issue a UDID and request luminaire status. **Note: wait 60 seconds between re-issuing join requests.**









SEND PING REQUEST - Sends a ping request to the Specto-XT Gateway to check radio communication.

LEAVE RADIO NETWORK - Send a message to the Specto-XT Gateway to remove the luminaire from the network. Once accepted the UDID is removed from the luminaire. **Note: If you remove a luminaire without leaving the radio network the system will report the unit as faulty.**



TO PROGRAM SPECTO-XT LUMINAIRE

FUNCTION	BUTTON	DISPLAY
1 Switch on the Programmer		IRPR
2 Scroll to the <Specto-XT Emergency> menu		<Specto-XT> <Emergency>
3 Select the menu <Specto-XT Emergency>		download all (Specto-XT only)
4 Use the scroll buttons, to find building address		building: 1 address 1-254
5 Select this parameter. Option name and current status are now displayed on the top line		building: 1* address 1-254
6 Use the scroll buttons, to select the required address number		building: 12* address 1-254
7 To exit the setting mode press (Esc). The new selected value will now be displayed on the first line		building: 12 address 1-254
8 The (Send) button will now update the chosen parameter in the luminaire		building: 12 Sending.....OK
9 Repeat these steps above to set the group address and device address at each luminaire and area as required.		
10 Use the scroll buttons, to find rf transmit		rf transmit: di enable/disable
11 Select this parameter. Option name and current status are now displayed on the top line		rf transmit: di* enable/disable
12 Use the scroll buttons, to select the required parameter		rf transmit: en* enable/disable
13 To exit the setting mode press (Esc). The new selected value will now be displayed on the first line		rf transmit: en enable/disable
14 The (Send) button will now update the chosen parameter in the luminaire		rf transmit: en Sending.....OK
15 Use the scroll buttons, to find Radio LED		radio LED: en enable/disable


FUNCTION	BUTTON	DISPLAY
16 Select this parameter. Option name and current status are now displayed on the top line		radio LED: en enable/disable
17 Use the scroll buttons, to select the required parameter		radio LED: di* enable/disable
18 To exit the setting mode press (Esc). The new selected value will now be displayed on the first line		radio LED: di enable/disable
19 The (Send) button will now update the chosen parameter in the luminaire		radio LED: di Sending.....OK
Check that all transmitted parameters have been confirmed by a Sending..... OK, otherwise correct programming cannot be guaranteed.		
Now all parameters are memorised in the Luminaire. Each luminaire can have unique parameters if required.		
20 Use the scroll buttons, to find join radio network		join radio network
21 The (Send) button will now join the luminaire to the network		join radio net- Sending.....OK
The indicator will now flash blue. If the luminaire joins successfully the indicator will turn amber and flash 10 times. The luminaire is now issued its UDID from the Gateway. To check the UDID is correct follow the below steps.		
22 Use the scroll buttons, to find read unique device ID		read unique device ID: non
23 The (Read) button will now read the UDID issued to the luminaire		read unique Reading.....OK
Check that the UDID displayed on the screen is correct. If not please contact our Technical Department for assistance.		

SPECTO-XT EMERGENCY MODULES

FAULT	ELP	TRIDONIC	MACKWELL
Normal mode	Green LED - ON	Green LED - ON	Green LED - ON (Pulses every 10 seconds)
Commissioning	Green LED - slow flash	Green LED - ON	Green LED - slow flash
Function test	Green LED - fast flash	Green LED - fast flash	Green LED - fast flash
Duration test	Green LED - slow flash	Green LED - slow flash	Green LED - slow flash
Lamp fault/open circuit/short circuit	Red LED - ON	Red LED - ON	Red LED - fast flash
Battery fault	Red LED - slow flash	Red LED - slow flash	Red LED - slow flash
Charge fault/Circuit fault	Red LED - fast flash	Red LED - fast flash	Red LED - fast flash
Emergency mode	LED OFF	LED OFF	LED OFF
Identification	Red/Green LED - slow flash	Red/Green LED - slow flash	Red/Green LED - slow flash

STATUS AND ERROR MESSAGES

When the **Send Button**  is pressed, **Sending** appears on the bottom line of the display. If the transmission is successful, **OK** appears briefly on the right hand side of the bottom line.

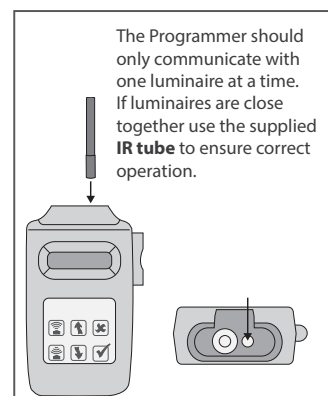
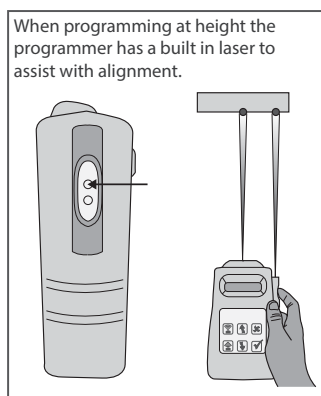
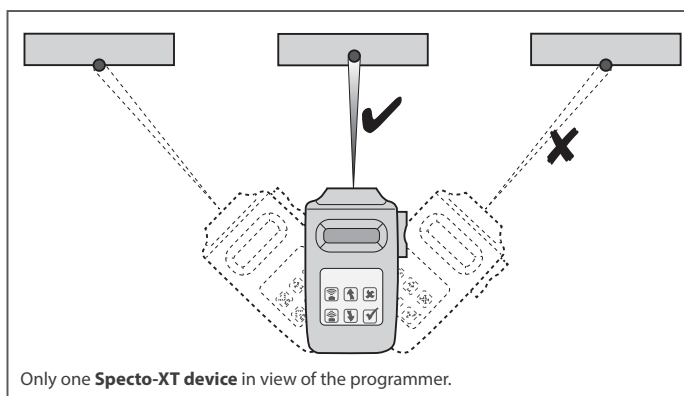
When the **Read Button**  is pressed, **Reading** appears on the bottom line. If the reception is successful, **OK** appears briefly on the right hand side of the bottom line. In both conditions, the programmer will attempt data transfer three times, shown as #1 followed by #2 followed by #3 on the bottom line. If, after 3 attempts, the transfer of data is not successful, **Link Error** appears on the bottom line. Possible causes could be that the programmer isn't being pointed directly at the Luminaire, is too far away, or is being masked by IR from the lamps within the luminaire. Resolve the issue and try again.

TO READ EMERGENCY STATUS

FUNCTION	BUTTON	DISPLAY
1 Switch on the Programmer		IRPR Version 1.90
2 Scroll to the <Emergency Status> menu		<Emergency Status>
3 Select the menu <Emergency Status>		Start function test
4 Scroll to Read test status		Read test status
5 Press Read		Read test status
6 Scroll to Emergency Status		Emergency Status 000000
7 Press select to define status		Emergency Status* 000000
8 Scroll through to see emergency status		Emergency Status* 00000000
9 Autotest inhibit y/n		InhibitMode: n*
10 Function test complete y/n		FunctiTestDone: y*
11 Duration test complete y/n		DuratiTestDone: y*
12 Battery charged y/n		BatteryCharged: y*
13 Function test pending y/n		FuncTestPendin: y*
14 Duration test pending y/n		DuraTestPending: y*

TO READ EMERGENCY FAULT STATUS

FUNCTION	BUTTON	DISPLAY
1 Switch on the Programmer		IRPR Version 1.90
2 Scroll to the <Emergency Status> menu		<Emergency Status>
3 Select the menu <Emergency Status>		Start function test
4 Scroll to Read test status		Read test status
5 Press Read		Read test status
6 Scroll to Failure Status		Failure Status 00000000
7 Press select to define status		Failure Status* 00000000
8 Scroll through to see fault status		Failure Status* 00000000
9 Circuit failure y/n		CircuitFailure: n*
10 Battery duration test failure y/n		BateryDuraFail: n*
11 Battery failure y/n		BatteryFailure: n*
12 Emergency lamp failure y/n		EmergelampFail: n
13 Function test maximum delay exceeded y/n		FuncTestExceed: n*
14 Duration test maximum delay exceeded y/n		DuraTestExceed: n*
15 Function test failed y/n		FunctiTestFail: n*
16 Duration test failed y/n		DuratiTestFail: n*



MAINTENANCE

The **Programmer** should not be subjected to undue mechanical shock or extremes of temperature. Clean only with a clean dry cloth.

MODIFICATIONS

Philip Payne products should not be modified. Any modification may render the product unsafe and will invalidate any Safety/Approval marks.

GB - NOTICE TO CONTRACTOR - PLEASE PASS THIS LEAFLET TO THE END-USER.
FR - A L'ATTENTION DE L'INSTALLATEUR - MERCI DE TRANSMETTRE CE DOCUMENT À L'UTILISATEUR.
DE - HINWEIS AN DIE MONTAGEFIRMA - BITTE GEBEN SIE DIESE INFORMATION AN IHREN KUNDEN WEITER.
IT - AVVISO PER CONTRACTOR - LA PREGHIAMO DI INFORMARE ILLUSTRATIVO ALLE UTENTE FINALE.
SE - INFORMATION TILL ENTREPRENÖREN - VÄNLIGEN VIDAREBEFORDRA DETTA INFORMATIONSHÄFTE TILL SLUTANVÄNDAREN.
ES - NOTA AL CONTRATISTA - POR FAVOR HAGA LLEGAR ESTE FOLLETO AL CLIENTE FINAL.
NL - MEDEDELING VOOR DE AANNEMER: GEEF DEZE INFORMATIE DOOR AAN DE EIND GEBRUIKER.
NO - NOTAT TIL ELEKTRIKER - VÆR VENNLIG Å GI DETTE SKRIV TIL SLUTTBRUKER.
PL - INFORMACJA DLA MONTAŻYSTY - PROSZĘ PRZEKAZAĆ INSTRUKCJĘ MONTAŻOWĄ DLA ODBIORCY.