



F-Link XP Multi-Zone Expansion



USER MANUAL

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Preface

Important Installation Information

It is the purchasers' responsibility to determine the suitability of this equipment and its derivatives for any given application, Scope cannot give specific advice in this manual, as each use will require independent evaluation.

Scope has, wherever possible, employed extra safeguards to monitor the system's performance. Certain system installations, operational requirements or budgets may, however, limit the effectiveness of these safeguards. Again, the suitability of the system for any given application must therefore be decided by the installer and their customer, relative to the application and risk.

Good working practice dictates that a suitable system installation log must be generated, together with a record of the dates when the system has been manually checked, (with the aid of signal strength meters etc.) enabling the system performance to be compared with the original installation data.

The supply of this equipment is governed by our standard terms and conditions of sale, which can be found on the reverse of all order acknowledgements*, proforma invoices*, delivery notes, price lists and invoices. Alternatively, these can be provided on request.

* Emailed proforma invoices and quotations refer to "conditions available upon request".

Important Safety Information

Scope products are designed to operate safely when installed and used according to general safety practices. The following requirements should be observed at all times.

Do NOT subject this equipment to:

- Mechanical shock
- Excessive humidity or moisture
- Extremes of temperature
- Corrosive liquids

This equipment is designed for indoor use, unless expressly stated otherwise, and must not be used in classified Hazardous Areas, including areas containing explosive or flammable vapours, unless express authorisation has been given in writing by the manufacturer. If in doubt, consult your local product dealer for further information.

Do not obstruct any slots or openings in the product. These are provided for ventilation to ensure reliable operation of the product and to protect it from overheating.

Only use a damp cloth for cleaning (not liquid or aerosol-based cleaners), and ensure that any power is removed from the unit prior to beginning the cleaning operation.

Removal of covers from the equipment must only be undertaken by authorised service personnel, who must ensure that power is isolated prior to removal.

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Installation

Installation must only be undertaken by an Approved contractor, who shall ensure that all work is carried out in compliance with National Wiring Regulations.

No User Serviceable Parts

Alteration or modification to any part of this equipment, without the prior written consent of Scope, will invalidate all applicable Approvals & Warranties. Further liability for the operation of the equipment will pass to the user, who will absolve Scope of any further responsibility for it's correct operation and use.

Liability

Scope does not accept liability for any damage or injury, howsoever caused as the result of misuse of this equipment. It is the responsibility of the user to ensure that the equipment is operated in the manner for which it was intended and that it is the correct item of equipment for the required task.

Warranty

This product is warranted as free from defects of workmanship and materials for a period of one year from the original purchase date. During this time, if there is a defect or malfunction of this product, Scope will, with proof of purchase, repair or replace at it's discretion any defective parts, free of charge. This does not include where the adjustments, parts and repair are necessary due to circumstances beyond the control of Scope, including but not limited to fire or other casualty, accident, neglect, abuse, abnormal use or battery leakage damage.

WARNING! No User-Serviceable Parts

Alteration or modification to any part of this equipment, without the prior written consent of the manufacturer, will invalidate all manufacturer approvals and warranties. No adjustments can be undertaken except by qualified and licensed persons as authorised by Scope.

Hereby, the manufacturer Scope Communications UK Ltd declares that the equipment types: FLXP15 and FLXP30, are in compliance with Radio Equipment Directive 2014/53/EU and ROHS Directive 2011/65/EU. The full text of the EU Declaration of Conformity is available at the following internet address: <http://www.scope-uk.com/technical-support.html> or from Scope at: Quantum House, Steamer Quay, Totnes, TQ9 5AL United Kingdom.



Do not discard. At end of life this equipment must be sent to an authorised waste treatment centre. Contact Scope at the above address for further details.



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Brief Overview

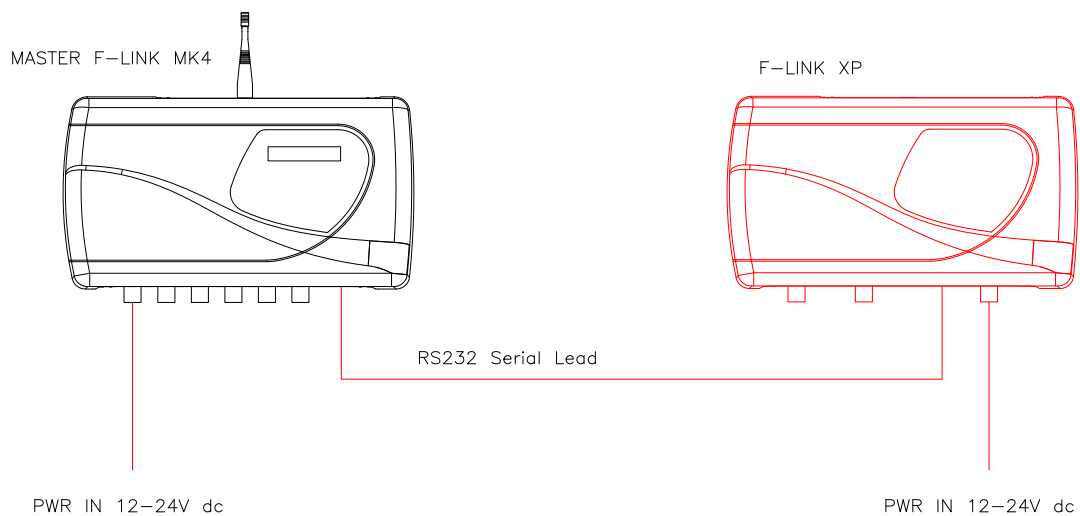
The FLXP is a configurable relay expansion unit for use with the Scope F-Link MK4 system. It is equipped with 15 relays with 'normally open', 'normally closed' and common relay connections brought out onto screw terminals.

Each relay can be programmed using the PC application to activate on a 'FIRE' or 'FAULT' call (zones 1 and 2) from any of the outlying F-Link node units (1 - 15) in the system.

Installation

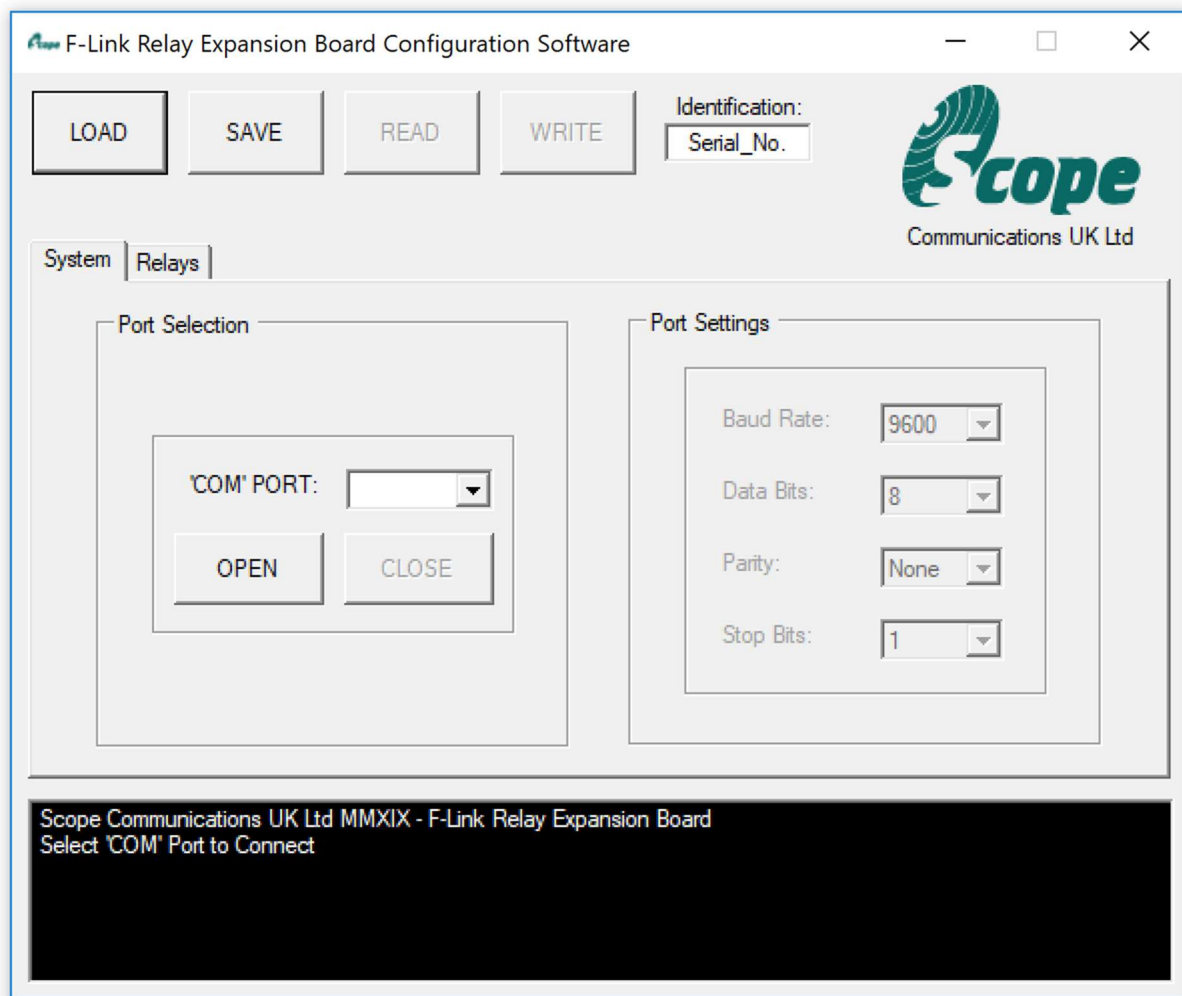
The F-Link XP MUST be connected to the Master F-link MK4 unit using the serial cable supplied. Mount the unit on a flat wall using suitable screws/wall plugs through the three holes provided in the chassis plate.

Power Input is 12-24V dc @ 1A, fully regulated and low noise. Input cabling should be rated 2A minimum and fire resistant. The power supply (not supplied) should be independently fused at 1A max and have a clearly accessible isolating switch or other means of disconnection from the FLXP. It should also comply with BS 54-4: 1998. Both PSU and cabling must be previously approved and correctly rated according to local national standards and regulations.



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Main Window



'LOAD' Button

Loads a previously saved '.flkxp' configuration file.

'SAVE' Button

Saves the configuration to a file with a '.flkxp' extension.

'READ' Button

Reads the current configuration from the device.

'WRITE' Button

Writes the configuration to the device.

'Identification' Text Box

Allows a unique ID to be programmed (mandatory 10 characters, no spaces).

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'System' Tab

The screenshot shows the 'F-Link Relay Expansion Board Configuration Software' window. At the top, there are four buttons: 'LOAD', 'SAVE', 'READ', and 'WRITE'. To the right of these buttons is an 'Identification:' label with a 'Serial_No.' input field. The 'Scope Communications UK Ltd' logo is in the top right corner. Below the buttons, there are two tabs: 'System' (selected) and 'Relays'. The 'System' tab contains two main sections: 'Port Selection' and 'Port Settings'. The 'Port Selection' section has a 'COM' PORT: dropdown menu and 'OPEN' and 'CLOSE' buttons. The 'Port Settings' section has four dropdown menus: 'Baud Rate' (set to 9600), 'Data Bits' (set to 8), 'Parity' (set to None), and 'Stop Bits' (set to 1). At the bottom of the window, there is a black status bar with white text that reads: 'Scope Communications UK Ltd MMXIX - F-Link Relay Expansion Board' and 'Select COM Port to Connect'.

RS232 Serial Comms

To connect and program the FLKXP, first select the 'COM' port from the list of available ports and click the 'OPEN' button. If a correct connection is established, you will then be asked if you want to read configuration information from the device.

Programming the FLXP15

- 1) Install the FLXP Configuration Utility software onto a PC or laptop running Windows 10 onwards.
- 2) Using a 9-pin RS232 null-modem crossover lead, connect from your PC serial port to the RS232 port of the FLXP15. If your PC does not have a 9-pin serial COM port, then you will need a USB to Serial Converter in between the PC and the RS232 null-modem crossover lead. We recommend converters using an FTDI chipset (for example, UGREEN USB to RS232, USB Serial Cable). If you are using a USB to Serial Converter, check the device manager on your PC, for the correct COM port.
- 3) Apply power to the FLXP unit (if already powered, disconnect and re-apply power). You now have 60 seconds to connect using the Configuration Utility. If the unit is not reset by powering down & re-powering, or more than 60 seconds elapses before connecting, it will

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not program.

4) Open the FLXP Configuration Utility. On the “Port” tab, select the correct COM port from the list. Now click the “CONNECT” button on the right, then when connected, click the “Read” button.

5) Before making changes, go to the “File” menu and click “Save As” to save the original configuration to your laptop or PC. This may be useful for future reference.

6) Make the required changes to the configuration (see details below).

7) Go to the “File” menu, click “Save As” and save the modified configuration to your laptop or PC - with a different filename.

8) Click the “Write” button to write the modified configuration back to the FLXP.

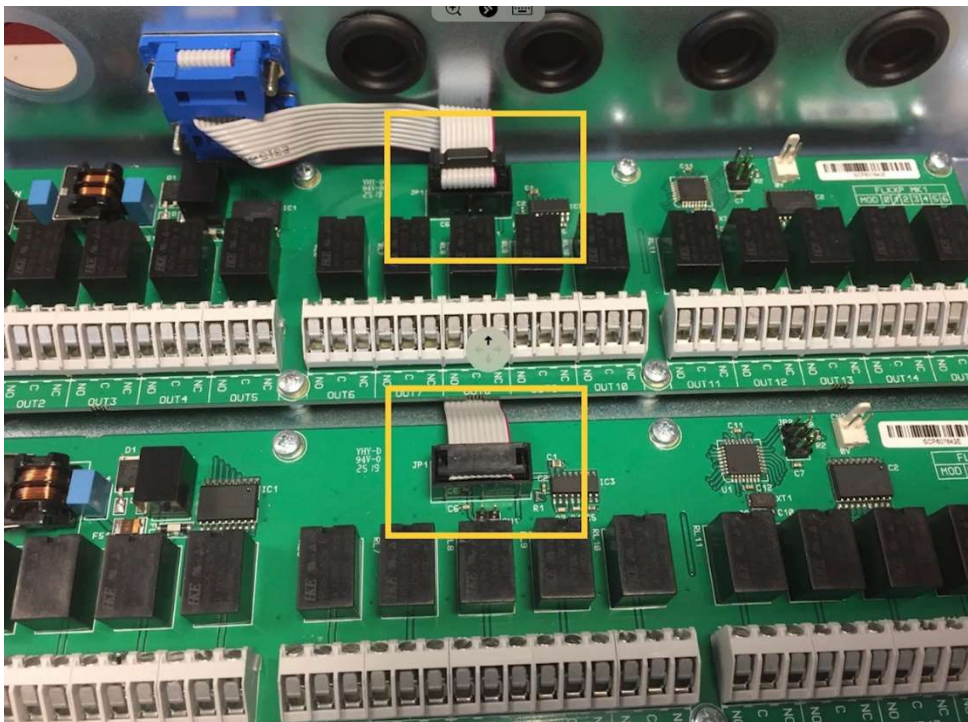
10) Acknowledge the “success” message, then click “DISCONNECT”.

Programming the FLXP30

In addition to the above instruction, note that only one of the FLXP30 boards can be programmed at a time.

Unplug the grey ribbon cable from the board which is NOT being programmed (see photo below, highlighted in yellow).

After the desired board has been programmed, the COM lead must be refitted to the other board.



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'Relays' Tab

F-Link Relay Expansion Board Configuration Software

LOAD SAVE READ WRITE

Identification: Serial_No.

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System Relays

Relay	Node	Zone
01	1	1 [FIRE]
02	2	1 [FIRE]
03	3	1 [FIRE]
04	4	1 [FIRE]
05	5	1 [FIRE]

Relay	Node	Zone
06	6	1 [FIRE]
07	7	1 [FIRE]
08	8	1 [FIRE]
09	9	1 [FIRE]
10	10	1 [FIRE]

Relay	Node	Zone
11	11	1 [FIRE]
12	12	1 [FIRE]
13	13	1 [FIRE]
14	14	1 [FIRE]
15	15	1 [FIRE]

Scope Communications UK Ltd MMXIX - F-Link Relay Expansion Board
Select 'COM' Port to Connect

'Node' Setting

Selects the required node (1 – 15) for each relay.

'Zone' Setting

Selects the required zone (1 [FIRE] or 2 [FAULT]) for each relay.

Configuration

The standard unit, FLXP15, can be configured to activate on the FIRE signal from all 15 nodes, or FIRE and FAULT from 7 units. To achieve FIRE and FAULT activation from all 15 nodes, you will require the FLXP30 unit, which contains a total of 30 relays.

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Specification

Power Input	12 to 24Vdc @ 1A
Standby Current	9mA
Active Relay	15mA per relay
All Relays Active	240 mA (FLXP15), 500 mA (FLXP30)
Relay contact ratings	1A @ 24V dc
Footprint	(H) 190 x (W) 335 x (D) 70 mm
For Use with	F-Link Mk4 (Master)

Scope's policy is one of continuous improvement and specifications are subject to change without notice. E & OE.