F-Link 4 Fire Linking System

F-Link 4 is a switched input wireless linking system for remotely alerting and monitoring fire or security systems in neighbouring buildings.

Flexibility: a system consists of between two and sixteen F-Link units, connected to each building's fire system, with each unit operating as both a transmitter and receiver in a mesh network. A fire alert in the source building will be transmitted to all the other buildings in the network, identifying the building which has gone into alarm and the nature of the alert. This can also be used to extend the fire alarm to temporary buildings whilst construction is underway. Pre-configured inputs for Lockdown and Class Change are also provided for use in schools.

Dependability: the radio links within the network are monitored for faults in accordance with the relevant sections of BS5839-1:2017 (24.2b) and BSEN54-25:2008 (4.2.6).

Expandability: there is an additional RS232 serial output on the Master unit for connection to the FLINK XP relay expansion unit, and/or an optional F-LINK paging transmitter, which will send alarm and fault messages to pocket radio receivers carried by fire marshals.

Visit the Applications page of our website to see how F-Link can provide a solution for you!

Key Features

- Mesh network signalling technology

- Up to 16 F-Link units in each network

- Self-healing, fully supervised network with high immunity

- Auto re-configure mode for quick and easy unit replacement

- Informative LCD text display

- Multiple cable entry points in large case

- Internal switch configuration for rapid and fuss-free installation

- Link monitoring in accordance with the relevant sections of BS5839-1:2017 and BSEN54-25:2008

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Specifications

Footprint: (H) 190* x (W) 335 x (D) 70 mm
[*355 mm with 1/4 wave antenna]

Clearance: minimum 200 mm on all sides

Supply Voltage: 10-30V DC

Power Consumption:

~50mA (standby)

~300mA (transmitting)

+25mA per active relay

Transmitter Output: 500mW max

Frequency Range: 458.5125MHz - 458.9375MHz

Channel Spacing: 12.5KHz **Receiver**

Blocking: Cat. 1.5 EN 300 220

Receiver Sensitivity: -117dBm

Conformity
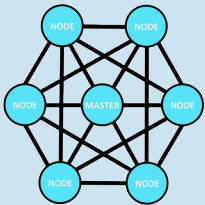
ROHS Directive (EU)/215/863

Radio Equipment Directive 2014/53/EU

Standards Applied

EN 300 220-1 V3.1.1 (Radio)

EN 301 489-1 V2.2.1 (EMC)

EN 62368-1: 2020 (Safety)

UK Licence Requirement

None (licence-free SRD frequencies)

A Scope Digimesh™ Product

Scope Communications UK Ltd
Quantum House
Steamer Quay
Totnes, Devon, TQ9 5AL
England

Tel: +44 (0) 1803 860700
Fax: +44 (0) 1803 863716
Web: www.scope-uk.com
Email: sales@scope-uk.com

Operational Features

The front panel display indicates active zones, unit status, network/radio status and the received signal strength of incoming transmissions. A button is provided to mute the internal fault sounder, and a keyswitch allows the unit to be reset or placed into test mode.

Plug & play installation includes "press to join network" feature and auto- reconfiguration if a unit needs to be replaced or moved.

The Identity and radio operating frequency of each unit is set using internal dip switches, allowing for rapid and fuss-free installation.

Where required, additional features can be personalised using Scope's PC configuration software. This includes text descriptors for each Node and each zone event; zone input type; and output relay operating mode. Programmed settings are wirelessly distributed by the Master unit to all installed Nodes.

The plug-in **F-Link XP** relay expansion can be added to the Master F-Link unit to notify the Master Fire control panel as to which F-Link node has gone into alarm. The standard 15 relay unit allows "Fire" alert notification from all 15 Nodes. The XP30 unit allows "Fire" and "Fault" notification from all 15 Nodes.

Inputs:	4 x volt-free zone inputs (Can be set to normally-open or normally-closed)
	1 x volt-free fault input (680Ω end-of-line, triggered by open- or short-circuit)
	1 x volt-free remote reset input (normally-open)
Outputs:	4 x configurable zone output relay
	1 x fault/test output relay
	(all changeover relays, 50V 0.5A max)
Text descriptions:	Individual Node name (16 characters)
	4 x input trigger messages (16 characters each)
	4 x input clear messages (16 characters each)
Control ports:	USB port for programming function
	9-pin RS232 port for connection to either or both FLINK XP and FLINK paging system
Configuration:	Node address and operating frequency via DIP switches
	Operation and function via PC software (available from Scope)
Footprint (mm):	330w x 190*h x 70d mm (*excluding aerial)