

F-Link

Supervised Transceiver System



UHF Linked Radio Network

The Scope F-Link system is a four input (dry contact) transmitter/receiver which forms part of a linked radio network for remote alerting and status monitoring, typically of fire or security panels. The unit has 4 dry contact input zones, each with a corresponding relay output and a further relay to indicate a radio link failure.

The unit can be configured as either a "master" or a "node" in a supervised private radio network, employing acknowledge-back and "listen-before-talk" (LBT) techniques to ensure robustness and reliability of the radio system.

The front panel indicates when any relays are active, the unit's configuration status (master/node), the presence of a radio signal jam or radio link fail and received signal strength of incoming transmissions.

features

- Can be supplied as an 'off the shelf' product with no factory programming necessary
- Quick and easy installation
- 4 volt-free inputs and 4 relay outputs configured by DIP switches
- LINK FAIL and SIGNAL JAM indicators
- LINK FAIL output relay
- LBT (listen before talk) for reliable communications
- Can be powered from 12V or 24V
- Up to 16 units per network (15 x nodes, 1 x master)
- 0.5W maximum output power

Specification

Power:**Input Voltage:**

10-30V DC

Consumption:

<50mA operating

300mA transmit (plus 25mA per active zone)

Transmitter:**Freq range:**458.500 - 458.650 MHz
(factory programmable)**Channel spacing:**

12.5KHz

Adjacent channel:

better than 10uW at 2KHz deviation

Tx baud rate:

2400 baud

Power output:

500mW max

Receiver:**Sensitivity:**

-100dBm

Ports:

4 dry contact zone inputs

4 relay zone outputs

USB port for programming/interface function

DIP switches for system configuration

Dimensions (mm):

184 (L) x 138 (W) x 45 (D) max

Radio Standards: ETS EN300 220**Notified Body No:** 0891**EMC Standards:** ETS EN 301 489

The F-Link™ Wireless Networking Protocol is a simple protocol designed for low data rate, short distance communication. Fundamentally based on IEEE 802.15.4™, the F-Link protocol provides an easy-to-use plug-and-play wireless network of up to 15 “nodes” + a “master” unit.

User-configurable options include Normally Open/Closed default condition for each input zone and relays set as either Latching, Change of State or Self Reset, all selectable via a bank of switches within the unit (no PC programming required).

The input power requirement is 10-30V dc (500 mA minimum supply), allowing the unit to be powered from a typical 12V or 24V dc panel supply.

The transmitter is a 0.5W synthesized unit, factory programmable between 458.500 MHz and 458.650 MHz in 12.5KHz channels.



Compliance

Compliant with the R&TTE Directive 1999/5/EC.

A full Declaration of Compliance is available from the manufacturer, Scope

