

## **Firephone 400 Hot Line Telephone**

***A Public Address system may be connected to the site telephone system, which then allows speech from the telephone system subscribers to address the Public Address loudspeaker networks. This is effected by a CCU (Call Connect Unit) interface.***



The FP400X is a compact highly reliable hot line telephone subscriber exchange. The unit allows up to forty subscribers to be connected with extension facilities. Type FP400X (Slave) allows further channels to be assigned. (Please see Data Sheet PM/0112)

The FP400X comprises of an operator panel (which is fitted as part of the exchange or can be supplied separately to allow remote control of the Fire Hot line telephone system) and up to forty way exchange. The operator panel carries a telephone handset / cradle and a push button / LED array that allows the operator to determine system status, telephone subscriber waiting / call in and subscriber selection. The exchange unit is designed for standard 19 inch cubicle execution and is equipped with modular plug in / out electronics hardware.

Connection to each telephone subscriber is via a simple non polarised monitored single twisted cable pair.

Maximum distance between exchange host and subscriber is dependent on cable conductor size assignment and associated loop resistance.

Cable Conductor Size Cross Sectional Area (C.S.A)	Maximum distance (metres)
0.25 mm <sup>2</sup>	200 M
0.5 mm <sup>2</sup>	400 M
0.75 mm <sup>2</sup>	800 M
1.0 mm <sup>2</sup>	1000 M
1.5 mm <sup>2</sup>	2000 M
2.5 mm <sup>2</sup>	3000 M

The Firephone hot line telephone system is energised at the host exchange, no local supplies are required at telephone subscriber station positions. The primary A.C. mains can be backed by an optional secondary D.C. battery no break supply. An on board charger is designed to float charge maintenance free dry fit accumulators to facilitate complete supply autonomy. The battery

pile is located in a secondary sheet steel lockable enclosure (for systems with 40 channels or less the battery pile is located inside the exchange) designed for installation in the immediate vicinity of the Firephone 400 exchange. Autonomy is 24 hour quiescent 30 minutes system usage.

### *Mechanical Specification*

Depth	300mm
Weight	Fully loaded - 30kg approx
Colour	Operator panel glass red rear enclosure natural alloy
Finish	Operator panel paint finish to RAL3020 with white silk screen legends. Rear enclosure anodised.
Field cable termination	Klippon GSE5 style accepts up to 2.5mm <sup>2</sup> solid cable conductors.

### *Electrical Specification*

Mains supply	110/120 or 220/240 volts A.C. (note by solder link selection)
Voltage tolerance	110V or 230V +/- 10%
Mains supply frequency	50 or 60 Hz
Frequency tolerance	50 Hz +/- 20%
Power consumption	Maximum 100VA
Signalling principle	loop disconnect
Ring cadence	0.5 second burst, 0.5 second pause, 0.5 second burst, 1.5 second pause
Communication protocol	2 wire full duplex
Telephone line voltage	24V.D.C nominal
Battery Charger	Constant voltage regulated
Public address interface	-10dB audio line output and volt free key contact rated 24V.D.C 0.25A

