

## **Firephone 400 System**

**The Spector Lumenex FirePhone 400 telephone system provides highly secure two way full duplex voice communications between strategic site locations and a central operator position.**

The system supports a range of different telephone subscribers that allow vital communications from office to potentially explosive work locations. The FirePhone 400 package is fully supervised and can also be fully battery backed to meet the critical requirements of BS5839.

Subscriber capacity is up to forty channels for a FirePhone 400 exchange with extension panels providing a further sixty subscriber possibility. The system is designed for "non blocking" operation and will tolerate ALL subscribers attempting simultaneous call in to the operator. All call-ins are held in memory and can only be eliminated from the operator control panel status display by manual operator intervention. The FirePhone 400 system enables the operator to have absolute control, calls can be answered in any order of preference and it is possible to converse with up to three subscribers at any one time. Each subscriber line is fully supervised and a discreet indication of trouble is fed to the operator on a per channel basis. The design ensures that a corrupted field circuit can not affect other healthy circuits thereby eliminating common mode failure conditions that would otherwise reduce system integrity. FirePhone 400 incorporates supply monitoring and can automatically switch in no break stand-by battery power in the event of primary A.C. mains supply trouble.

### **Key Features & Benefits**

- **Fully supervised - provides operator with early warning of system deterioration.**
- **Simple non critical field interconnecting cable - low cost installation.**
- **High security fail safe operation - Reliable communication in event of emergency conditions.**
- **Discreet indicator / push button (key lamp) operation - Simple to operate in an emergency.**
- **Explosion proof outstation - Safe communications to / from a hazardous area.**



Firephone 400 Exchange & Operator Panel  
FP400/240/C/00/01/540/E  
(see Data Sheets PM0111 & PM0112)



Firephone 400 FP400/F/00/00  
(see Data Sheet PM0108)  
Safe Area telephone outstation



Resistel Telephone  
(see Data Sheet PM0124)  
Explosion proof telephone outstation

**JUDGES**

- 1) ALL CONDUCTORS FREE OF DIRT, LA, OR INSULATION TESTER.
- 2) TERMINALS - KILFOON BASE ACCEPTS UP TO 2.3mm<sup>2</sup> CSA SOLID CONDUCTORS.
- 3) OPERATING TEMPERATURE RANGE -10°C TO +40°C.
- 4) H.O.T. TERMINALS WITHIN FIREPHONE 400 X 40.
- 5) FIELD CABLE ENDS TO BE SEPARATED FROM OTHER SYSTEM A.C. POWER CABLES.
- 6) WIRELESS PHONE CHANNELS TO BE LOADED WITH FIREPHONE DUMMY LOADS.
- 7) LINES MUST NOT BE INSULATION TESTED WHEN FIREPHONE DUMMY LOADS OR FIREPHONE EQUIPMENT.
- 8) A.C. WIRING SHALL BE DERIVED FROM A PROTECTED SOURCE (E.G. W. CIRCUIT BREAKER OR 10A MAX. RATED FUSE).
- 9) PHONE TO BE BOUNDED TO PREVENTIVE ERROR.

