

# SMART FLAME PROOF PA TELEPHONE (MODEL NTF-4600)

**SMART FLAME PROOF PA TELEPHONE** is a multiple role; multiple location operating telephone unit by construction with built in public address system, works as a normal telephone as well as a page phone unit. This phone has a built in amplifier, which is connected to external loudspeaker horn and works on either 220 volts AC or 110 Volts AC. One has to just lift the telephone handset of any extension, dial the extension number of PA Telephone and after the call matures automatically, make necessary announcement. The communication between the calling party and the called party is in private mode, when the called party lifts the handset. They are designed for use in highly explosive (for area Zone 1 & Zone 2 & Gas Group: IIA & IIB), dusty, noisy & humid areas in industrial locations of explosive They are equipped with magnetic electronic cradle with industrial strength one-meter handset cord. The stainless steel handset cord remains flexible in the most extreme temperatures, unlike PVC cords that are limited to minimum pull strength and begin to deteriorate fast. with sealed keypad to keep out dust, dirt, flame and moisture.



They are constructed & designed as per IS 2148-2004 ( IEC 60079-1/2001 & IS:13346-2004 ( IEC 60079-0/2000 ) of a high-impact, LM6 enclosure, it disconnects automatically if the calling party disconnects the call. The announcement is made at specified location only and not all over the plant and at any time more than one person can make announcement on different PA telephone sets. Incoming call from the PA telephone is like normal telephone call, just lift the receiver and dial the required extension. It is essential for growing organisations because of its unique features and is proposed to be used in conjunction with **SMART MASTER CONTROL STATION (MCS-ID)OR WITH PLANT EPABX** ( The backbone of every establishments communication. )

## OPERATIONS:

### 1. TO MAKE A CALL: -

- Lift the handset, hear the dial tone.
- Dial desired extension number & communicate.
- Replace handset to disconnect active call.

### 2. INCOMING CALL: -

- From any phone dial the extension number of SMART FLAME PROOF PA TELEPHONE. It will connect automatically and acknowledge with a BEEP TONE.
- Announce after the hearing the BEEP TONE.
- Communication will be in PRIVATE MODE when called party lifts the receiver.
- Replacing the receiver on cradle will reset the SMART FLAME PROOF PA TELEPHONE.

## VERSATILE APPLICATIONS

\* Cement Plants. \* Mines. \* Petrochemical Refineries. \* Chemical Plants. \* Construction Sites.  
\* Steel Plants. \* Spinning Yarns \* Fertilizer Plants. \* Sugar Mills. \* Power Generation Facilities \*  
Pulp & Paper Mills \* Food Processing Plant \* Warehouses \* Recreation Facilities \*Hydroelectric  
Facilities \* Drilling Rigs \* Ammonia Storage Area \* Process industries\* ANY LARGE AND MEDIUM  
SCALE INDUSTRIAL UNITS.

## SMART CHOICE: -

- Simple Installation.
- Simple Operation.
- Magnetic reed hook-switch reduces moving parts subject to wear.
- Auto disconnect to free line for next call.
- Single PCB design for plug & play operation.
- Easy troubleshooting ensuring minimum downtime.
- FLAMEPROOF CONSTRUCTION as per IS 2148-2004 ( IEC 60079-1/2001 )
- General design , rating, performance & T-class IS:13346-2004 ( IEC 60079-0/2000 )
- WEATHERPROOF CONSTRUCTION IP55 as per IS 12063-1987/IEC 60529/1989
- Area Classification : Zone 1 & Zone 2
- Gas Group : IIA & IIB
- Type of Ex protection: Ex 'd'
- Temperature range from 0 to +60 o C.
- Certified by CIMFR DHANBAD, INDIA
- Aluminum die casting body LM-6 with 6 mm wall thickness & powder coated construction.

## SPECIFICATIONS: -

### **Electrical requirements**

#### Electrical Requirement :-

Power Source:	220 V AC / 110 V AC (SWITCH ABLE).
Phone line:	24 VOLTS (EPABX) / 50 VOLTS (TEL LINE).
Power consumption:	< 35 Watts.
Stand by consumption:	< 5 Watts.
Amplifier:	30 Watts (RMS).
Horn Speaker:	60 watts, 8 ohms.
Insulation:	600 v for 3 min between power source & Telephone line.
Flame proof certification	CMRI DHANBAD
Area classification	ZONE 1 & 2
Gas group	I, IIA & IIB
Make	NEPTUNE

### **Environmental**

Temperature range	-5° C to 60° C
Humidity	0 to 95% Rh non-condensing.
Enclosure	IP 55 certified .

### **Mechanical**

Body construction	ALUMINIUM DIE CASTING(LM-6).
Standard mounting	Vertical wall.
Hardware material	Stainless steel.

**INDUSTRIAL COMMUNICATIONS SIMPLIFIED .**

*cables & wireless co.*

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“(Specifications and description subjected to change without prior notice)”