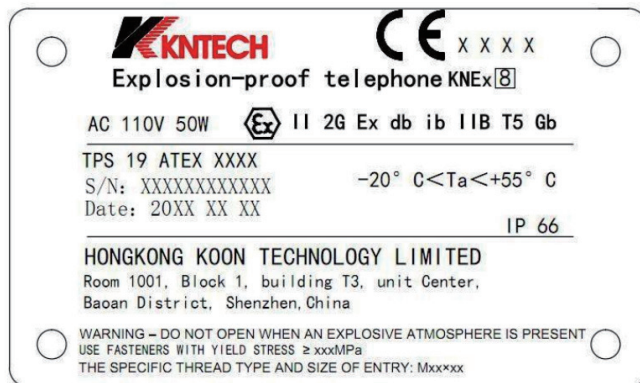# Explosion Proof Telephones

Model: KNEx8 VoIP

The system controller serves as the central intelligence of our Public Address and Voice Alarm solution. It efficiently:

Key Functional Features & Benefits

☐ Robust aluminium alloy die-cast body, Vandal & tamper-resistanthardware.

☐ Waterproof rating IP66 dust proof.

☐ Full keypad with memory, dialling 10 groups of numbers stored in the memory.

☐ Magnetic reed hook-switch.

☐ Heavy Duty handset with hearing Aid compatible receiver, Noise canceling microphone.

☐ Handset with industrial strong curly cord .

☐ Stainless Steel keypad keep waterproof and dusty proof.

☐ With externalsafety ring indicator D20 with 80 0.5W and LED 5Vd.c./0.75W: with built-in amplifiermodule support external explosion proof horn 8 Ohm 30W.

☐ Door cover: orient automatically and good self - closing, convenient for use.

☐ Temperature range from -20 degree to +55 degree.

☐ Support echo cancellation.

☐ Powder coated in UV stabilized polyester finish.

☐ Application: Hazardousdust andgas atmospheres,petrochemical industry,Tunnel,metro, railway, LRT, speedway, marine, ship,offshore, mine, power plant, bridge etc.

Specitfication

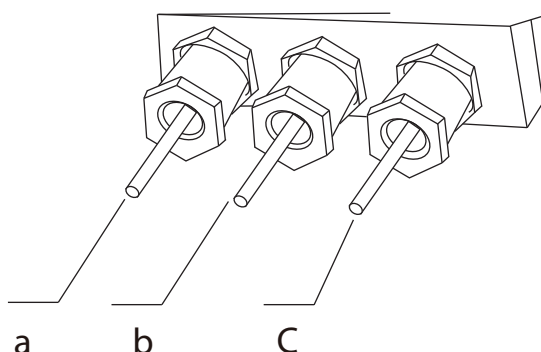| Parameter	Description
Device Protection & Reliability	
MTBF (Mean Time Between Failure)	100,000 hours (measures device reliability)
Communication Protocols & Signaling Control	
Call Control Signaling	Supports SIP 2.0 protocol for establishing and managing communication connections.
VOIP Integration	DTMF transmission via SIP (RFC 2833 compliant).
Audio Codecs	Supports G.711, G.722, and G.729 for optimized voice quality.
Power Supply & Electrical Performance	
Power Input	AC 220V or AC 110V (optional) input; supports PoE (IEEE 802.3af).
Load & Current Parameters	■ Rated load: 0.3A at 125 VAC / 1A at 30 VDC. ■ Max switching voltage/current: 125 VAC/30 VDC, 1A.
Network Configuration	
Network Interfaces	■ 10/100 BaseTX Ethernet, RJ45 connectors (Cat5e or higher). ■ IPv4, UDP, and DHCP support.
Wireless Connectivity	Wi-Fi: 2.4GHz band (802.11b/g/n).
Physical Specifications & Environmental Adaptability	
Housing Design	■ Robust aluminum alloy die-cast body (IP66 protection rating). ■ Dimensions: 262×345×161mm; Weight: 10.65kg
Environmental Conditions	■ Operating temperature: -20℃ to 55℃; Humidity: 10%~95%. ■ Noise resistance: ambient noise <60dB(A).
Audio & Alarm Systems	
Sound Pressure Level	Ringing volume: >90dB(A) / >100dB(A) at 50cm distance.
Echo Cancellation	Compliant with G.167/G.168 standards
Management & Operational Features	
Programming & Configuration	■ Non-volatile flash memory programming via Web GUI. ■ Supports remote software upgrades and centralized monitoring.
User Interface	Speed-dial keypad with 3 pre-stored number groups.
Safety & Auxiliary Functions	
Network Security	IEEE 802.1X authentication for enhanced security.
Auxiliary Output	1 dry contact auxiliary output (1A/30 VDC).

KNTECH

Explosion-proof telephone KNEx⑧

CE XXXX

AC 110V 50W Ⓔx II 2G Ex db ib IIB T5 Gb

TPS 19 ATEX XXXX
S/N: XXXXXXXXXXXX
Date: 20XX XX XX

−20° C<Ta<+55° C

IP 66

HONGKONG KOON TECHNOLOGY LIMITED
Room 1001, Block 1, building T3, unit Center,
Baoan District, Shenzhen, China

WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT
USE FASTENERS WITH YIELD STRESS ≥ xxxMPa
THE SPECIFIC THREAD TYPE AND SIZE OF ENTRY: Mxx×xx

KNTECH's Partners

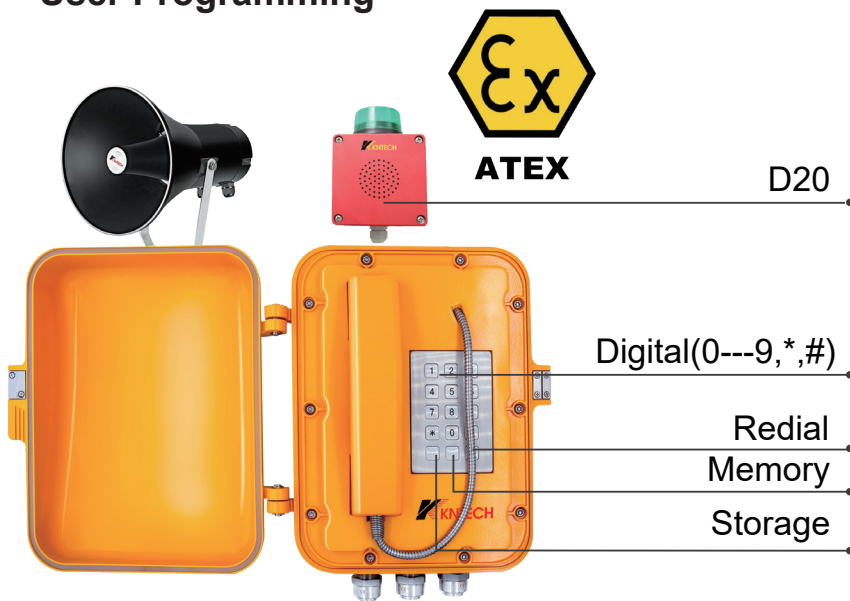|					
HUAWEI	ALSTOM ·mobility by nature·	THALES	SIEMENS	HITACHI Inspire the Next	ABB
PARSONS	中国中车 CRRC	MTR	aramco	NSW GOVERNMENT | sydney METRO	DELHI METRO RAIL CORPORATION LTD.
MRT CORP	أدنوك ADNOC	ST Engineering	信興集團 SHUN HING GROUP	GTECH	中電控股 CLP Holdings
PCCW	中国交建 CHINA COMMUNICATIONS CONSTRUCTION	AVAYA	EV Dynamic	Honeywell	NEC
ZTE	PARSONS Parsons Delcan Inc.	中核集团 CNNC	FHC	中国铁建股份有限公司 CHINA RAILWAY CONSTRUCTION CORPORATION LIMITED	中国海洋石油有限公司

Interface Connection Schematic Diagram

a   b   C

a : AC power cord (option : 3-core wire)

b : Network cable above cat 5

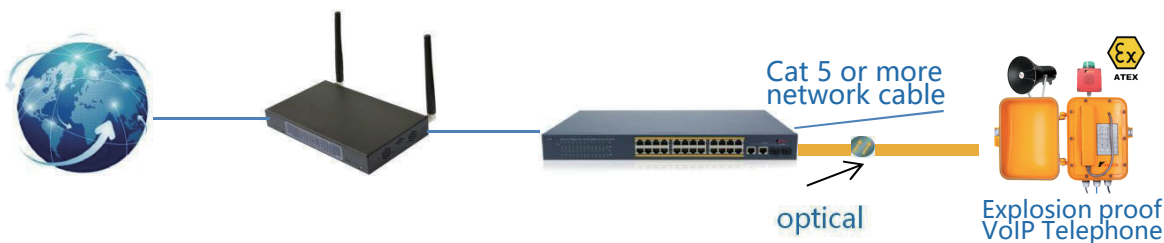c : Headset and D20 ringtone and LED DC5V/0.75Wand explosion proof horn connection cable(option:8-core wire)

User Programming

ATEX

D20

Digital(0---9,*,#)

Redial

Memory

Storage

pick up the Handset, press the keyboard
storage key+address key (digital 0 --- 9)
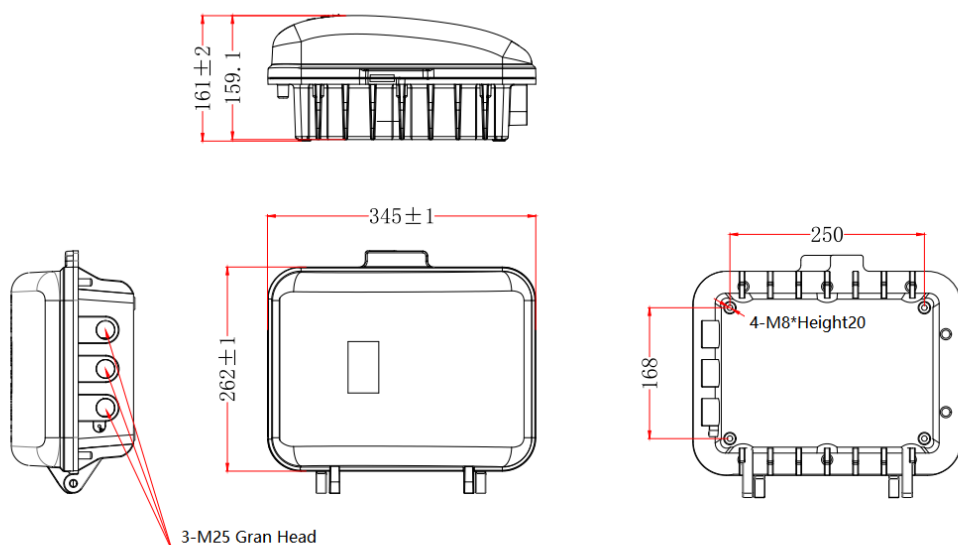+phone number+storage key, and then hang up.

Network Connection

Connect the IP machine to the company's IP telephony network system. Beforeconnecting to the network, check whether the network systemis working properly.Direct network connection - In this way, you need at least one Ethernetport in your work place.Connect the LAN port to the Ethernet port of your workspace using the Ethernet cable on the back of the phone.

Cat 5 or more
network cable

optical

Explosion proof
VoIP Telephone

Dimensions

Unit: mm

161 ± 2 159.1

345 ± 1

262 ± 1

3-M25 Gran Head

250

168

4-M8*Height20

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Factory: KNTECH Building. Phoenix Mountain, Limhai Zone, Shajiao Community, Humen, Dongguan, China