

USER MANUAL

KNEx Series Analog Telephone user manual

Ver : A0

KNEx5



KNEx6



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Foreword

Our KNE5 and KNE6 is explosion-proof Analog phone. it is a rugged telephone. It is freely programmable and the best choice under harsh conditions. It is made up of 15-bit stainless steel keyboard and aluminum shell so that users can program freely. A phone that is very suitable for connecting a public telephone network to a private automatic extension switch. Designed for use in harsh, dusty, wet and noisy environments such as mining, subway, tunneling, shipping, distribution, industrial and outdoor locations, this guide will help you use your phone with ease. Please read carefully the user manual below before connecting the power supply.

1. Characteristic

- Explosion proof mark and grade

Explosion proof mark :  II 2G Ex db ib IIB T5 Gb -20°C ≤ Ta ≤ +55°C

Grade : IP 66

- Explosion proof Mode table :

KN EX 6
 ① ② ③

① : KOON

② : Explosion proof

③ : Product serial number

5----- Analogue telephone, Telephone Line Power Supply and External safety D21 ringtone.

6----- Analogue telephone, AC power supply, explosion proof horn 8 Ohm 30W connector and D20 8Ω 0.5W and LED DC5V 0.75W.

Model Number	Telephone Line Power Supply (DC2 4V---DC48V)	AC Power Supply (AC 110 or 220V)	Explosion proof horn 8 Ohm 30W Connector	D21 8Ω 0.5W	D20 8Ω 0.5W and LED DC5V 0.75W
KNE5	√	×	×	√	×
KNE6	×	√	√	×	√

2. Greneral Operation Instructions

2.1 Answer the call

- Handset answering
When the phone rings,Just pick up the handset and talking to the other party. After the call is over, put back the handset to disconnect the call.
- Automaticly answed
Receive a broadcast when the phone is automatically connected. After the broadcast is finish, After receiving the busy tone,the phone can automatically cut off the broadcast status.Return to standby.

2.2 Dialing a call

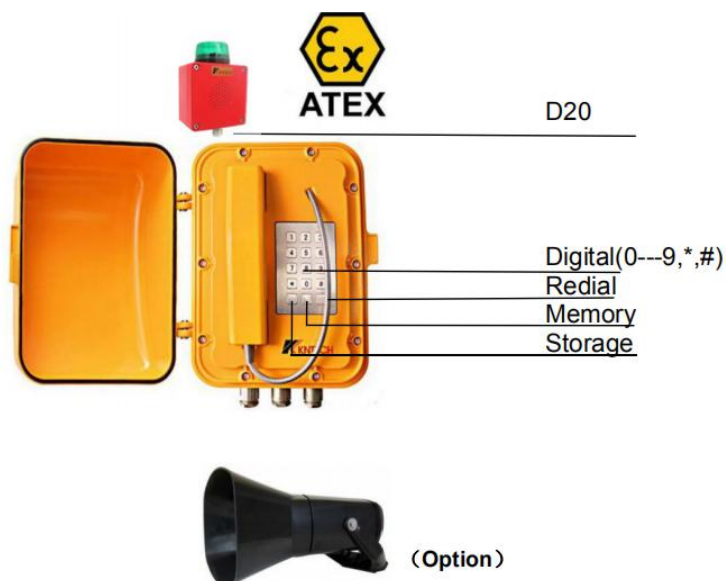
- Handset mode hot line diali , pick up the handset, you will hear the dial tone, enter the phone number After the talking is finish, put back the handset and end the call.
- One click speed dial (Speed dial : Max 10)
Pick up the handle and press Memory + digital button and quick dial on the panel to call . After the call is finish, put back the handset and end the call.

2.3 Call hang up

When the talking is Finish,put it back to the handle and hang up.

2.4 User programming

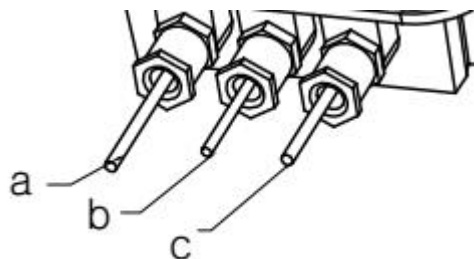
pick up the Handset, press the keyboard storage key+address key(digital 0 --- 9)+phone number+storage key, and then hang up.



3. Specification

- PSTN Analogue Telephone
- DTMF: dialing
- Connection :RJ11 screw terminal pair cable.
- Applicable for various types of SPC exchange PABX and dispatching exchange system with supply voltage of 24-48V.
- Ambient temperature:-20 ~ +55degree. Relative humidity:10%~95%
- External Loudspeaker,MAX 30W@8Ω(option)
- Sound level of ringing:over 70dB(A).
- Standard frequency:Low frequency group : 697. 770. 852. 941Hz,
Highfrequencygroup : 1209. 1336. 1477Hz,
Frequency deviation : -1.5% ~ +1.5%
- Call transmission index:(5KM)SLR<12,RLR<-1,STMR>10,
output impedance is 600 Ohm,maximum distance: 7KM
- Super strong function is available for dialing 10 groups of numbers stored in the memory
(maximum length of each number is 16 digits)
- Connection: RJ11 screw terminal pair cable (or RJ11 Socket of plug upon request) with stainless steel cable protected
- Power :
power supply AC110V / AC220V;(option) and Telephone Line.
- Explosion-proof standard of the product : EN IEC 60079-0:2018,
EN 60079-1:2014,
EN 60079-11:2012

4. Interface Connection Schematic Diagram



- a : AC power cord (option : 3-core wire)
- b : Telephone Line
- c : Headset and D20 and Explosion proof horn connection cable
and D20 8Ω 0.5W and LED DC5V0.75W or D21 8Ω 0.5W

(option : 8-core wire)

- d: the cable entries shall be secured
with suitable cable entry devices which are ATEX-certified.
- e: Handset
receiver : $L = 2.42\text{mH}$, $C = 10.5\mu\text{F}$;
microphone $L = 4.6\text{mH}$, $C = 5.6\mu\text{F}$;
- f : Speaker
8 OHM 0.5W speaker $L = 0.33\text{mH}$, $C = 77.63\mu\text{F}$.

5. Warning and Safety Notices

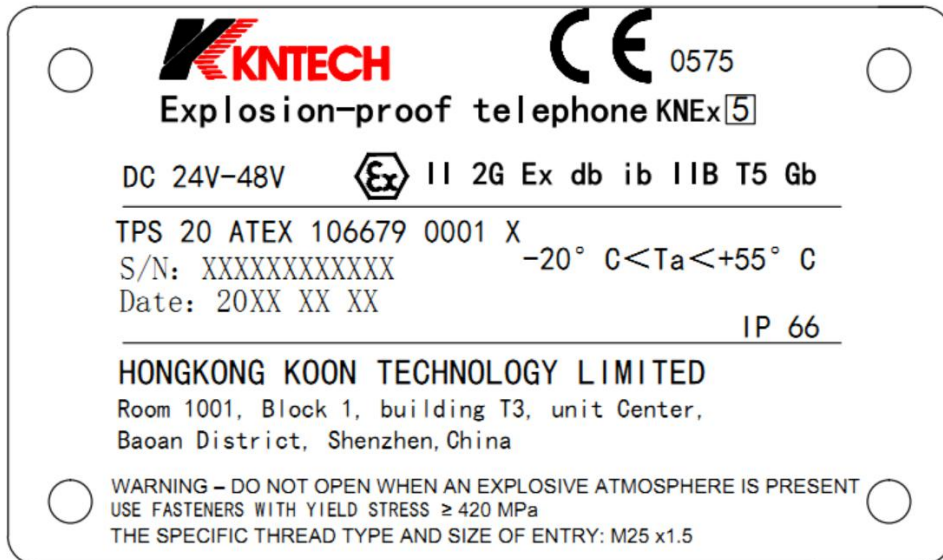
- Before using, please confirm whether the temperature and humidity of the environment meet the temperature and humidity required for the work of the product.
- Care must be given to the telephone, the connection cable, the must not be damaged. the use of the phone is not allowed in the damaged state
- Non-technical service personnel should not disassemble or repair the phone themselves. Otherwise, improper repair or malfunction may cause electric shock, fire, etc., which may lead to injury accidents and invalidate your product warranty.
- Do not put metal objects such as pins, wires, fingers or other foreign objects into the vents and gaps. It may cause current to pass through metal or foreign matter, which may cause electric shock and cause injury. If the foreign objects or similar objects fall into the phone, it should be stopped to use.
- Do not discard or store the packaging in a place where the young child can get it. If the child uses it to cover the head, the nasal and mouth blockage may occur, resulting in suffocation.
- For using the telephone the laws and the industrial regulations, the accident prevention, respectively the electrical regulations must be respected.
- The telephone is suitable for use in Group II, Category 2G or Non-hazardous Locations .
- Do not disconnect the telephone unless it is in a non-dangerous area and the power has been cut off.
- Substitution of any components may impair suitability for Group II, Category 2G .

- For During installation or removal, the joint of the upper protective cover and the bottom shell shall not be damaged or scratched.
- Ambient temperature: -20°C to +55°C
- Repair of the flamepaths is not intended. Repair in compliance with the values in EN 60079-1 is not accepted.
- The installation must be installed according the requirementsOf EN 60079-14: latest version (or its National equivalent standard).
- The cable entry holes have to be connected by means of suitable cable entry device and which are covered by a separate conformity certificate.

6. Product Maintenance

- Avoid inserting water into the phone during rainy days.
- Check the power cord regularly.
- Keep the phone dry and clean.
- Please operate the telephone according to the user manual.

7. Product Label : (DC24---48V & 110V & 220V)





Explosion-proof telephone KNEx⁶

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

TPS 20 ATEX 106679 0001 X
S/N: XXXXXXXXXXXX -20° C < Ta < +55° C
Date: 20XX XX XX

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 ≥ 420 MPa
THE SPECIFIC THREAD TYPE AND SIZE OF ENTRY: M25 x1.5



Explosion-proof telephone KNEx⁶

AC 220V 50W  II 2G Ex db ib IIB T5 Gb

TPS 20 ATEX 106679 0001 X
S/N: XXXXXXXXXXXX -20° C < Ta < +55° C
Date: 20XX XX XX

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The Global Leader in Industrial Communication!



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