# INDUSTRIAL TELEPHONES



# **INDEX OF INDUSTRIAL TELEPHONES**

EX PROOF TELEPHONES FOR REFINERIES AND GAS PIPELINES	PAG - 3
MINING TELEPHONES	PAG - 12
EX PROOF TELEPHONES FOR COAL MINING	PAG - 23
COURTESY PUBLIC TELEPHONE	PAG - 30

# **EX PROOF TELEPHONES**



# **For Refineries and Gas Pipelines**



# **Telephone TLA227**







TLA229

## **Telephone Description TLA227 / TLA229**

- Analog Ex Proof Telephone TLA227 certified by ATEX to operate in explosive areas Zone
   1, built of lightweight aluminum alloy RAL2003 anti-vandal use. Also available in
   RAL2003 reinforced polycarbonate casing as shock resistant TLA229.
- Handset with rugged stainless steel cord with 200Kg of resistance.
- Line voltage from 12 to 48 VDC and ring voltage from 30 to 90 VAC.
- Speaker with sound power of 85dB at one meter.
- It has port to connect external loudspeaker and beacon
- Noise canceling circuit.
- Manual and automatic hanging magnetic detection
- DTMF dialing and is programmable remotely via DTMF tones.

### **Especifications**

- Eex Protection: EEx ib em IIC T5 / ATEX II 2 G D
- Ambient temperature of use: -40°C / +60°C
- Cable entry: Ex type for cable Ø10 to Ø13mm
- penetration index: IP66, impact protection: IK10
- Dimensions: 210x240x117 mm TLA227, 201 X 320 X 113 mm TLA229
- Weight: 4.5 Kg TLA227, 2.Kg TLA229

# **APPLICATIONS: Refineries, Gas Pipelines, Petrochemicals** and Chemical Plants, Ammunition Factories, etc.







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# **Telephone TLH214 for Intercom**







ILIZ 14AG

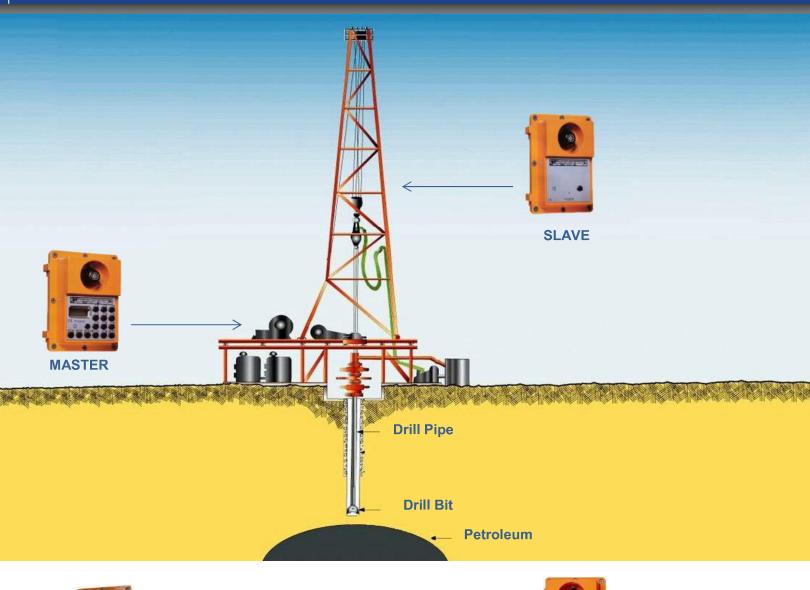
TLH214A1G

### **Description of Telephone TLH214**

- The Analog Ex Proof Telephone TLA214AG certified by ATEX to operate in explosive areas Zone 1, made of light aluminum alloy with orange polycarbonate, serves as the master station intercom and is equipped with high-performance electronics offering the best full duplex conversations.
- When the master station button is activated, a list of 8 handsets registered in memory can be dialed automatically, these phones can be slaves telephones with one single press button.
- At the end of the conversation, the processor will automatically hang up the call.
- The phone is powered by 24VDC and 48VCD sources
- It has a 15 watt compression chamber loudspeaker with sound level of 100 to 105dB at one meter and is adjustable.
- Has port to connect another external loudspeaker and beacon.

- Protection level: ATEX EE xd II BT6 II2G
- Ambient temperature of use: -40°C / +60°C
- Cable entry: Ex type for cable from Ø 7 to Ø 12mm
- Penetration index: IP66
- Impact protection: IK10
- Dimensions: 210 x 300 x 190 mm
- Weight: 8 Kg

# **APPLICATIONS: For Oil Well Drilling Towers and Sea Platforms**







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# **Telephone TLS229**





### **Description of Telephone TLS229**

- Analogue ex proof telephone certified by for operation in explosive areas Zone 1, easy to install with connections and components resistant to the most severe weather conditions, with stainless steel screws, with reinforced polycarbonate housing RAL2003 resistant to blows and impacts.
- Hands free talk mode
- Optional integrated LED flash, handset with stainless steel cord with resistance greater than 100 kg.
- Line voltage from 12 to 60 VDC and ringing voltage from 30 to 80 VAC.
- 50 ohm loadspeaker, 5 watts with sound power of 78dB to one meter.
- DTMF dialing
- Magnetic Hanging.

- EEx protection : EEx em [ib] II C T5 / ATEX II 2 G D
- Certificate of Conformity IECEx: IECEx INE 14,0004
- Ambient temperature of use: 40 ° C / + 60 ° C
- Cable entry: EEx type for cable Ø10 to Ø13 mm
- IP66 penetration index
- Impact protection IK10
- Dimensions: 201 x 320 x 113 mm
- Weight: 2.4 Kg

# **APPLICATIONS: Tank Truck Fuel Station,** Chemical Plants, Ammunition Factories, etc.







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# **Digital Telephone TLS214**







TLS214A1CL/P

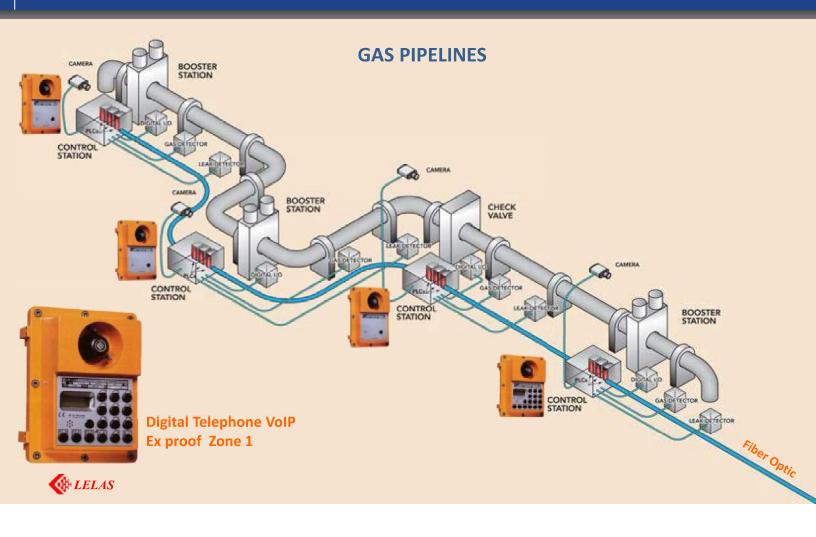
**TLS214A1S** 

# **Description of Digital Telephone TLS21**4

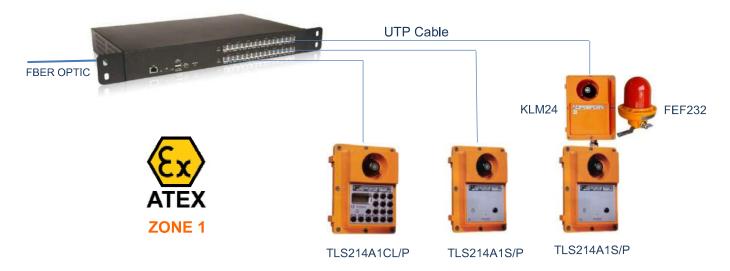
- The VoIP Digital Telephone TLS214 digital telephone, certified by ATEX to operate in explosive areas Zone 1, made of light aluminum alloy and orange polycarbonate.
- It has 8 buttons to register in memory other telephones that can be slaves with a single press button.
- · Telephone with a hands free talk mode.
- At the end of the conversation, the processor will automatically hang up the call.
- DTMF dialing and can be programmed remotely by DTMF tones.
- The phone is powered by sources from 24VDC up to 48VDC and a ringing voltage from 35 to 90 VAC.
- It has a 15 watt compression chamber loudspeaker with sound level greater than 85dB at one meter and is adjustable.
- Noise canceling circuit.
- Has port to connect another external loadspeaker and beacon.

- EEx Protection: ATEX EE xd II BT6 II2G
- Ambient temperature of use: 40 ° C / + 60 ° C
- Input cables section: 3 screw holes (2 cable connectors Ø 7 12 mm + 1 plug)
- Penetration rate: IP55 / IP66
- Other features: CCITT Q23
- impact protection: IK10
- Dimensions: 215 x 165 x 300mm
- Weight: 9 Kg

# **APPLICATIONS:** For Oil and Gas Pipelines, **Refineries and Petrochemical Plants**



#### **DIGITAL PBX**





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# **MINING TELEPHONES**





# **For Tunnels and Hard Rock Mines**



# **Telephone A120**



### **Description of Telephone A120**

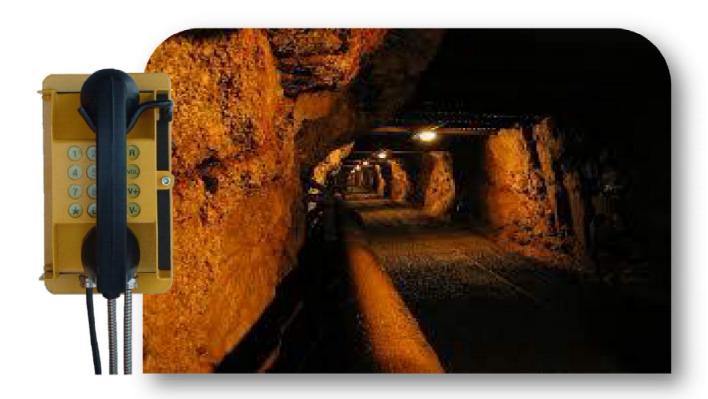
- Analog Mining Telephone with 2.3mm soft steel powder coated cover.
   waterproof IPSS seal\_standard yellow color.
- Polymer resin handset with TX RX dynamic transmit and receive caps, with standard rugged stainless steel cord.
- Electronic transmitter with 2k 9khz treble call tone 105 db @ 30 cm. Ring voltage 30 to 90VAC, 15-35hz
- • IP65 waterproof membrane touchpad with 14 buttons, 0 to 9, #, \* and Flash.

### **Specificaciones**

- Operating Range: 48VCD 5-6km 2wires 18AWG (0.9mm2) and 24VCD 2-3km 2 wires 19AWG (0.6mm2).
- 600 ohm impedance
- Weight: 2.5 kg
- Size: 110 H x 230 L x 140W

13

# **APLICATION: Mining Telephone for Tunnels and Hard Rock Mines**



APBX 308 Conmutador Analógico

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LELAS |

48VCD

Range 5 km to 6 km with 2 wires 18AWG (0.9mm2)

120/220 VAC





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# **Telephone SP09**



## **Description of Telephone SP09**

- Analog Mining telephone made of durable aluminum alloy materials, anti vandal resistant tamper.
- Optional Digital VoIP Telephone with SIP protocol available.
- Full keyboard with 10-button programmable speed dial phone, illuminated button option.
- Special plastic handset designed, shock resistant, shielded cable option. Microphone with noise cancellation. Volume control and adjustable ring
- Protection against lightning to ITU-T Recommendation K.21. Protection against entry: GB4208-93 IP66; EMC: EN55022 / EN55024 / EN50121-3-2: 2006 Mark FCC CE.

- Operating Range: 48VCD 4-5km 2wires 18AWG (0.9mm2) and 24VCD 3-4km 2 wires 19AWG (0.6mm2).
- 600 ohm impedance
- Weight: 3.9Kg
- Size: 320 \* 205 \* 120 (mm)

# APLICATION: Mining and Industrial Telephone for Tunnels and Hard Rock Mines



APBX 308 Conmutador Analógico

MAM 0000000

120/220 VAC

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48VCD

Range of 4 km to 5 km with 2 wires 18AWG (0.9mm2





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# **Telephone SP01**



### **Description of Telephone SP01**

- Analog Mining telephone made of durable aluminum alloy materials, anti vandal resistant tamper with external loadspeaker and beacon.
- Optional Digital VoIP Telephone with SIP protocol available.
- Full keyboard with 10-button programmable speed dial phone, illuminated button option.
- Special plastic handset designed, shock resistant, shielded cable option. Microphone with noise cancellation. Volume control and adjustable ring
- Protection against lightning to ITU-T Recommendation K.21. Protection against entry: GB4208-93 IP66; EMC: EN55022 / EN55024 / EN50121-3-2: 2006 Mark FCC CE.

- Operating Range: 48VCD 4-5km 2wires 18AWG (0.9mm2) and 24VCD 3-4km 2 wires 19AWG (0.6mm2).
- 600 ohm impedance
- Weight: 3.9Kg
- Size: 320 \* 205 \* 120 (mm)

# APLICATION: Mining and Industrial Telephone for Tunnels and Hard Rock Mines



48VCD

Range of 4 km to 5 km with 2 wires 18AWG (0.9mm2

APBX 308 Conmutador Analógico

LELAS



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120/220 VAC





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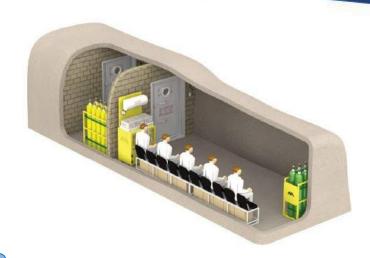
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# **Telephone I400 for Intercom**





## **Description of Telephone I400**

- Mining Telephone I400 for Intercom, does not need APBX, according to international safety rules serves as alternate communication system for tunnels in a hard rock mine, at the same time to communicate underground chamber refuge because it can be energized from the outside with a central source of 48 VCD with backup battery for 24 hours, in case of emergency can be connected 4 vehicle 12V batteries in series, connecting positive + with negative - to energize to 48 VDC.
- It consists of 2 to 50 telephones powered by a 48VDC source, operating up to 15km for a single pair of 18 AWG (0.9mm2) telephone wires.
- It is configured for group calls between the various areas of the mine, and under request supports general call which can terminate all active calls.
- The telephone responds to pulse dialing using two digits 00 to 99 for each phone number, no special code is required.

- Waterproof Silicone Plastic Touch Pad IP66, double tone with continuous ring from 110 dB to 1 m.
- Weight: 2Kg
- Size: (L) 310mm (W) 220mm (W) 220mm (D) 130mm
- Housing: ABS with 24 hour battery backup.

### **APLICATION: Intercom for Tunnels, to Communicate Underground Refuge and Conveyor Belts**





#### Sirens for Noisy Areas



Siren light

Siren Light



Siren Light with Star Stop Switch for Conveyor Belts



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# Telephone P300 for Voice Intercom in Tunnels



### **Description of Telephone P300 for Intercom**

- Voice intercom during construction of vehicular tunnels, mining tunnels, deep sewer, etc., similar to a cable radio system, does not require a switch, it only needs a pair of telephones and telephone cable, as the Tunel just add cable and telephones.
- From 2 to 50 telephones can be connected on 2 x 18AWG (0.9mm2) cable from 8 to 10 km in a tunnel.
- The telephones are powered by a central 12 VDC source and have a backup battery of 4 hrs. Optionally we have telephones energized to 110 / 220VAC for tunnels bigger than 20km
- They use simplex communication through open voice communications from 110 dB to 1 m.

## **Especificaciones**

- Penetration Range: IP65 Dustproof Waterproof
- Weight: 3Kg
- Size: H310 x W140 x D120
- Housing: ABS with battery for 3-4 hours of backup power.

# APPLICATION: For construction of Vehicle and MiningTunnels, Subway, Deep Sewer and Hydroelectric Dams







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# **EX PROOF TELEPHONES**

# FOR COAL MINING









# **Ex Proof Telephone A101**





### **Description of telephone A101**

- Analog Mining Telephone with cast brass metal housing for adverse environments in coal mines.
- Phone with dynamic capsule transmission, compatible with most PBX systems with analog port.
- Standard: Designed to meet Telkom S.A DPT-TE-00, ring sensitivity 17 to 50 Hz 40V RMS at 105V RMS. 85db handset transmitter output ringing.
- Touch-sensitive, waterproof and switchable rubber silicone keyboard with keys 1 to 10, \* #, R (Call back) F (Flash 100ms).
- The apparatus is certified by the South African government's certified laboratory for Explolabs Ex [ia] I / II B + H2 T6 coal mines.

## **Especifications**

- Operating Range: 48VCD 5-6km 2-wire 18AWG (0.9mm2
- 600 ohm impedance
- Weight: 9 Kg
- Size: 140mmH x 280L x 150W

# **APLICATION: Coal Mining Telephone**



APBX 308 Conmutador Analógico

LELAS

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120/220 VAC

48VCD

Range of 5km to 6 km with 2 wires 18AWG (0.9mm2)





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# **Ex Proof Telephone ATGI**





### **Description of telephone ATGI**

- The ATGI telephone is used for the communication of tunnels, plants and surface room of coal mines, not important for safe areas or not, when there is danger of explosion by the presence of coal dust of category M1.
- The intensity of the call signal and its optical indicator ensure that calls can be made even in adverse conditions with noise and dust.
- The device can call the operator directly with the AWIZO button and also call the dispatcher with the DYSP buttons, in addition to having 10 speed dial numbers that can be stored in memory.
- The device is certified by a certified laboratory in the European Community FTZU 06ATEX 017IX which provides the ATEX IM 1 EExia feature.

- Signal level: 90 dB at a distance of 1 m
- Protection level of the housing IP65 in the range of -25 ° C to + 60 ° C
- Attenuation reference: from +4 to -4dB on Tx and 0 to -8db on RX
- Transfer band: 300 Hz to 3400 Hz
- Input impedance: 600 Ohms.
- Weight: 2.5 kg
- Size: max 310x190x120mm
- Electrical parameters: Ui = 45V li = 50mA Pi = 2 W Ci = 0 Li = 20 mH

## **APPLICATION: ATGI Telephone for Tunnels and Plants** Of Coal Mines and also in the Construction.





120/220 VAC





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# **Ex Proof Telephone ATG4**





### **Description of telephone ATG4**

- The ATG4 mining telephone is used for communication in tunnels, plants and surface rooms of coal mines, it is not important whether it is a safe area or not, when there is danger of explosion by the presence of coal dust of category M1.
- ATG4 telephones can form local communication networks in the form of a minimum of two telephones and a maximum of four telephones up to 8-10km, 0.85db / km or 10.5db of attenuation. While the housing of the apparatus guarantees the work in conditions of extreme explosiveness of dust, humidity and high noise level in mines, foundries and constructions.
- The ATG-4 telephone has an operating range of -20 to +60 degrees Celsius and 95% relative humidity and is certified by a certified laboratory in the European Community FTZU 06ATEX 017IX, providing it with the function I MI EEx Ia I

- Signal level: at least 85 dB at a distance of 1 m
- Frequency of the signal: 1000hz
- Frequency band transmitted: 300 to 2500hz
- Attenuation reference: from +4 to -4dB on Tx and 0 to -8db on RX
- Weight: 3.6Kg
- Size: max 295x280x140 mm
- Power Source: Commercial batteries R20 1.5V
- Electrical parameters: Ui = 17V, Ii = 80mA, Pi = 1.2W, Ci = 0, Li = 100mH

# **APPLICATION: Mining Telephone for Tunnels of Coal Mines,** plants and Constructions



**Parallel Connection** 

Range 8 to 10km with 2-wire 18AWG (0.9mm2)











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# **COURTESY PUBLIC TELEPHONES**





# **Lobby of Hotels, Universities and Banks**



# **Courtesy Public Telephone ZD10**



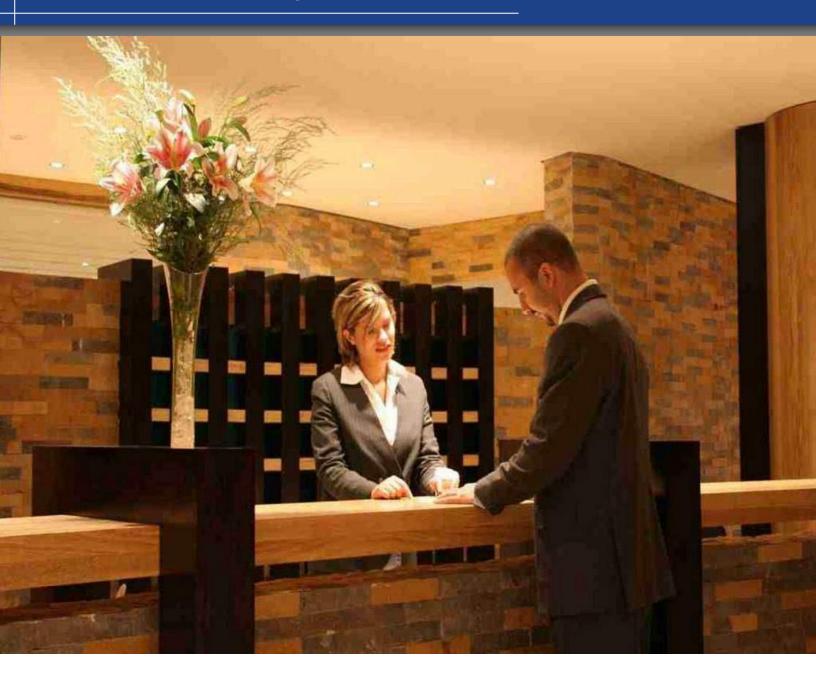
### **Description of telephone ZD10**

- Courtesy Public Telephone in Lobby of Hotels, Banks, Schools, Universities, Airport, Trains, Taxis and Buses Stations
- DTMF analog telephone in stainless steel, recommended for corrosive and humid environments, optional VoIP SIP digital model.
- Automatic dialing function when lifting the phone
- Installation method: Wall mounting
- The metal housing is provided with a grounding device and is completely insulated with internal and electric circuit, has the effect of electromagnetic shielding.
- Resistant to vandalism resistant to humidity.
- Power supply voltage of 33-60V.
- Ringer sound level: >70dB, 1W speaker
- · Automatic dialing when picking up the phone.
- Handset with shielded stainless steel cable resistant to tensile forces.
- Heavy duty stainless steel keyboard.

### **Especificaciones**

- The waterproof grade is IP65
- Ambient temperature -30 ° C to + 60 ° C
- Size: 280x180x50mm Carton size: 300x200x80mm
- Packing material: pearl cotton, cardboard
- Gross weight: 2.52 kg.
- Net Weight: 2.14 Kg.

# **APPLICATION:** Courtesy Public Telephone in Lobby of Hotels, Banks, Schools, Airport, Trains, Taxis and Buses Stations.





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# **Courtesy Public Telephone ZD07B**



### **Description of Telephone ZD07B**

- Courtesy Public Telephone for Lobby and University Halls, Lobby of Hotels, Banks, Airport, Trains and Buses Stations.
- DTMF analog telephone in stainless steel, recommended for corrosive and humid environments, optional VoIP SIP digital model.
- · Automatic dialing function when lifting the phone
- Installation method: Flush mounting
- The metal housing is provided with a grounding device and is completely insulated with internal and electric circuit, has the effect of electromagnetic shielding.
- Resistant to vandalism resistant to humidity.
- Power supply voltage of 33-60V.
- Ringer sound level: >70dB, 1W speaker
- · Automatic dialing when picking up the phone.
- Handset with shielded stainless steel cable resistant to tensile forces.
- Heavy duty stainless steel keyboard.

### **Especifications**

- The waterproof grade is IP65
- Ambient temperature -30 ° C to + 60 ° C
- Size: 280x180x50mm Carton size: 300x200x80mm
- Packing material: pearl cotton, cardboard
- Gross weight: 2.9 kg.
- Net Weight: 2.2 Kg.

## **APPLICATION: Public Telephone for Reception and University Halls,** Lobby of Hotels, Banks, Airports, Trains and Buses Stations.





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# **Courtesy Public Telephone ZD53**

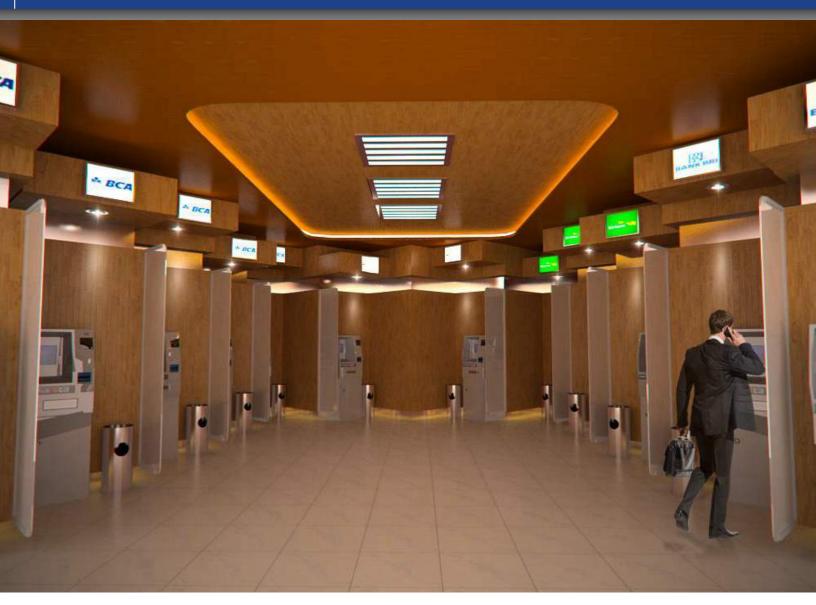


### **Description of telephone ZD53**

- Courtesy Public Telephone in ATMs and Banks, Reclusorios, Stations of Airports, Trains and Buses.
- Stainless steel analog telephone
- Installation method: Wall mounting
- Automatic dialing when lifting the phone.
- The housing has a completely isolated grounding device and with the internal circuit, electromagnetic shielding effect.
- Resistant to vandalism and tamper resistant
- Compatible with most PBX switches, APBX
- The system uses 33-60V power supply voltage.
- 1 watt speaker with ringer sound level: >70dB
- · Has excellent clear sound quality, strong noise, no echo
- The stainless steel armored cable of the headset is manufactured to withstand high tensile forces.

- Protección contra el relámpago del UIT-T K.21
- El grado impermeable es IP65
- Temperatura ambiental -35 ° C a + 75 ° C
- Humedad relativa: 45% 95%
- Tamaño: 110x110x51mm

# APLICACIÓN: Teléfono Público de Cortesía en Cajeros Automáticos y Bancos, Reclusirios, Estaciones de Aeropuertos, Trenes y Autobuses.









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# **Courtesy Public Telephone ZD55**



### **Description of Telephone ZD55**

- Courtesy Public Telephone for Jails and Correctional, ATMs, Airport, Trains and Buses Stations.
- Stainless steel analog telephone
- Installation method: Flush mounting
- Automatic dialing when lifting the phone.
- The housing has a completely isolated grounding device and with the internal circuit, electromagnetic shielding effect.
- Resistant to vandalism and tamper resistant
- Compatible with most PBX switches, APBX
- The system uses 33-60V power supply voltage.
- 1 watt speaker with ringer sound level: >70dB
- Has excellent clear sound quality, strong noise, no echo
- The stainless steel armored cable of the headset is manufactured to withstand high tensile forces.

## **Especifications**

- Protection against lightning ITU-T K.21
- The waterproof grade is IP65
- Ambient temperature -35 ° C to + 75 ° C
- Relative Humidity: 45% 95%
- Size: 110x110x51mm

# APLICACIÓN: Teléfono Público de Cortesía para Reclusorios y Correccionales Cajeros Automáticos, Estaciones de Aeropuertos, Trenes y Autobuses.









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