

Extended Data Sheet • Technical + Installation + Compatibility

Hikvision DS-KIS103

2-Wire Analog Audio Intercom Kit

A comprehensive product sheet covering technical specifications, operation, installation and wiring, cable limits, door/lock compatibility, and dimensions, based on Hikvision's current datasheet and the DS-KIS103 Audio Doorphone Quick Start Guide.

2-Wire Plug & Play

Analog audio connection between indoor and outdoor units. The QSG identifies the pair as non-polarised (NP).

Remote Unlock

Supports electric-lock or gate release from the indoor unit within the wiring limits stated in the QSG.

One-touch calling

Outdoor IP55

Rain shade included

Ringtone & volume control

System Type

Analog audio intercom kit. The source documents used do not specify a camera, video display, Wi-Fi, or mobile app.

Kit Components

Indoor handset unit, outdoor call station, and rain shade for the outdoor station.

Primary Use

Visitor calls from the outdoor station; the user answers on the handset and can release the door or gate.

Core Technical Specifications

Item	Specification
Model	DS-KIS103
Product Type	Audio Analog Intercom Kit
Connection	2-Wire Plug & Play Analog Audio
Main Functions	One-Touch Calling + Remote Unlocking
Outdoor Housing	Aluminium Alloy with Rain Cover
Ringtone Volume - Indoor	70 to 80 dB at ≤30 cm
Ring-Back Volume - Outdoor	50 to 60 dB at ≤30 cm
Talking Volume - Indoor	65 to 70 dB at 0 cm
Talking Volume - Outdoor	70 to 80 dB at ≤30 cm
Protection Level	IP55
Working Temperature - Current Datasheet	-10°C to 50°C (14°F to 122°F)
Working Humidity	10% to 90% (non-condensing)
Power Supply	100 to 240 VAC, 50/60 Hz
Power Consumption - Current Datasheet	< 4.5 W
Standby Consumption - QSG	< 0.5 W
Call Time	Up to 2 minutes; unanswered calls stop automatically after 20 seconds

Dimensions

136.42 × 56.24 × 40.1 mm

Approx. maximum outdoor station dimensions including rain shade. The device body drawing also shows 48.99 mm width and 33.3 mm depth.

209.94 × 67.94 × 58.12 mm

Indoor handset unit - height × width × depth according to the Hikvision dimension drawing.

Environment & Power

Outdoor Protection

IP55 in the current Hikvision datasheet. The outdoor unit uses an aluminium-alloy shell and rain cover.

Power

100-240 VAC, 50/60 Hz. The current datasheet lists power consumption below 4.5W.

Temperature

Current datasheet: -10°C to 50°C. The QSG lists -10 to 50°C indoor and -20 to 50°C outdoor.

Humidity

10% to 90% RH, non-condensing, according to the current datasheet.

Document note: The newer datasheet value is used as the primary commercial specification where the temperature values differ; the QSG difference is retained here for transparency.

Indoor & Outdoor Installation

1

Outdoor Station

Fasten the rain shade to the wall at 1.4-1.6 m above the floor. The QSG specifies 4×30BA screws.

2

Connect Wiring

Connect the wires according to the wiring diagram and secure each conductor in the terminal block.

3

Final Fixing

Fit the outdoor unit into the rain shade and secure the bottom with screws.

1

Indoor Station

Fix the back plate to the wall at 1.4-1.6 m above the floor.

2

Wire the Unit

Connect the outdoor-station pair and door/gate release wiring according to the diagram.

3

Power Up

Hang the indoor unit on the back plate, then connect the 100-240VAC power supply.

Installation Notes

Outdoor Location

The outdoor station is mounted on a wall or post beside the entrance; it is not a smart lock installed in the door leaf.

Indoor Location

Choose a dry, accessible position for the handset and keep it away from excessive heat or humidity.

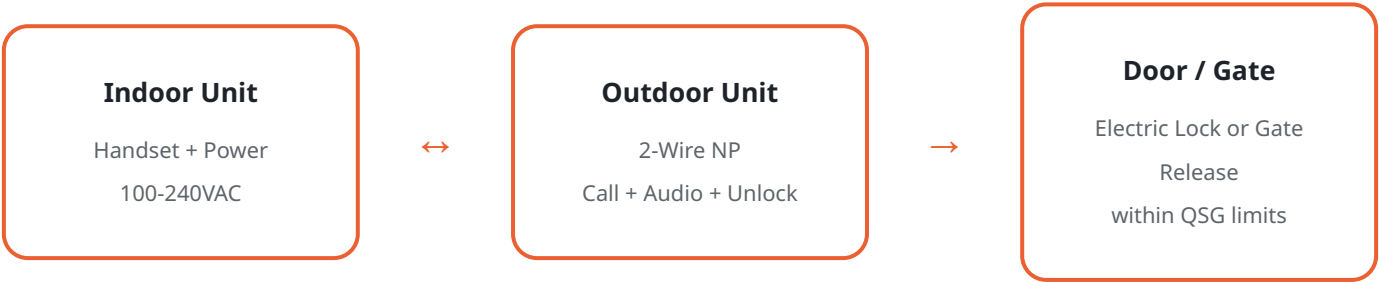
Terminal Block

Press the terminal button, insert the conductor into the correct hole, release it, then gently pull to confirm a secure clamp.

Commissioning

Test ringing, two-way audio, door release, and gate release as applicable before final handover.

Simplified Wiring Concept



NP = Non-Polarised: The QSG states that the indoor-to-outdoor pair is non-polarised. Hikvision terminal numbering and separation between communication and unlock terminals must still be followed.

Cable Distance & Size

Route	Distance	Cable stated in QSG
Indoor to Outdoor	0 - 50 m	RVV2 × 0.5 mm ²
Indoor to Outdoor	50 - 100 m	RVV2 × 1.0 mm ²
Unlock wiring	Up to 10 m	RVV2 × 1.0 mm ²

Electric Lock

The QSG identifies outdoor-station terminals 3/4 for the electric lock. Its diagram shows a 12VDC electric lock with current ≤400mA.

Gate Unlock

The QSG identifies terminals 5/6 for gate release with an external unlocking power supply and a stated limit of ≤30V/3A.

What Doors Can It Be Used With?

DS-KIS103 is a wall/post-mounted intercom beside the entrance, not a lock installed in the door leaf. Compatibility therefore depends mainly on the electrically controlled locking hardware rather than the door material alone.

Suitable with compatible electric lock

Wooden Main Doors

Can be used when the wooden door has, or will be fitted with, a compatible electrically controlled locking device.

Suitable

Metal / Steel Doors

Suitable for metal entrances when the release hardware matches the door and remains within the electrical limits.

Conditional

Aluminium Doors

Can be used if the aluminium profile supports a suitable electric lock. Lock choice depends on profile and mechanism.

Requires dedicated hardware

Glass Doors

The intercom can be mounted beside the entrance, but the glass door needs a suitable electrically controlled locking solution; the DS-KIS103 documents do not specify one.

Suitable

Gates

The QSG provides separate Gate Unlock terminals for sending a release command to a compatible gate or relay system.

Not an intercom parameter

Door Thickness & Swing

These are not DS-KIS103 compatibility parameters because the intercom is wall-mounted. They matter to the lock hardware selected for the door.

Unlock Interface Limits

Function	QSG Information
Electric Lock	Outdoor station terminals 3/4; wiring diagram indicates a 12VDC electric lock with current $\leq 400\text{mA}$.
Gate Unlock	Terminals 5/6; the QSG shows an external unlocking power supply and a stated limit of $\leq 30\text{V}/3\text{A}$.
Unlock Cable	$\text{RVV2} \times 1.0 \text{ mm}^2$, up to 10 m according to the QSG.

Important: Hikvision does not publish a door-material compatibility table for this model. The door categories on the previous page are an engineering application of the system architecture, not a manufacturer-issued compatibility table.

Pre-Installation Checklist

1. Entrance Type

Identify whether the project uses a residence/office door or a gate, and confirm the outdoor-station mounting location.

2. Lock Hardware

Identify the electric lock or gate operator and verify its voltage, current, and control method.

3. Cable Distance

Measure the indoor-to-outdoor run and select 0.5 or 1.0 mm^2 cable according to the QSG limits.

4. Unlock Cable

If the unlock path is separate, check the 10 m limit and $\text{RVV2} \times 1.0 \text{ mm}^2$ recommendation in the QSG.

5. Power

The indoor unit requires 100-240VAC. Any external gate-release supply must stay within the relevant limits.

6. Site Review

Technical site review is recommended for glass doors, aluminium profiles, and gate automation interfaces.

Operation & Functions

Answering a Call

When the visitor presses the outdoor call button, the indoor unit rings. Pick up the handset to talk and replace it to end the call.

Call Duration

Talking time is up to 2 minutes. If unanswered, the call stops automatically after 20 seconds.

Melody Selection

In standby, press Melody Selection to hear the ringtone, then press again to cycle through the available tones.

Ringling Volume

The QSG shows High / Low / Mute positions for the ringing-volume switch.

Door Release

The lock can be released in standby, with the handset picked up, during calling, and during a conversation according to the QSG.

Outdoor Protection

The outdoor station uses an aluminium-alloy shell with rain shade and carries IP55 protection in the Hikvision datasheet.

Safety Notes

- Keep the indoor unit away from excessive heat or humidity outside the specified range.
- Do not drop, throw, or strike the units.
- Fasten the units securely to the wall as instructed.
- Keep the power plug/disconnecting device accessible.
- Test call, audio, and unlock operation after installation and before handover.

Electrical note: Do not connect a lock load that exceeds the documented limits directly to the unit. Lock type, power supply, and relay arrangement must match the project and the QSG limits.

Documents Used

Hikvision Official Datasheet

DS-KIS103 Audio Analog Intercom Kit

Dated 2025-08-15. Primary source for product features, audio levels, IP55, working conditions, power, power consumption, and dimensions.

DS-KIS103 Audio Doorphone QSG

Used for operation, call timing, mounting heights, installation procedure, cable size/distance, lock/gate wiring, and standby consumption.

What the Source Documents Do Not Explicitly Specify

- No manufacturer door-material compatibility table is provided for wood, aluminium, or glass.
- The documents used do not list a camera, video screen, Wi-Fi, or mobile app for DS-KIS103.
- The current datasheet does not state an expansion capacity for additional stations; none is assumed here.
- Final electric-lock selection must be based on project door hardware and electrical load.

Source 1: Hikvision DS-KIS103 Datasheet_20250815.pdf - assets.hikvision.com

Source 2: DS-KIS103 Audio Doorphone Quick Start Guide (QSG) - model operation, installation and wiring instructions.

Preparation rule: Where the two documents differ, the newer official datasheet is used as the primary commercial specification and the QSG difference is recorded rather than silently merged.

Project Ready

Hikvision DS-KIS103

A practical analog audio entry solution for entrances requiring direct visitor calling and electric door or gate release using a simple 2-wire architecture.