



Automatic Bell Controller

DEN-280 · FIRMWARE V3.0 · USER MANUAL

Set your school timetable once from your phone. The controller rings every period bell on its own, every day.



Thank you for choosing DENONTEK

The DEN-280 rings your school bell at the right time, every day, without anyone pressing a button. You set the timetable from your mobile phone in a few minutes. No app and no internet are needed.

Quick start

1

Connect the bell and switch on

2

Join the Wi-Fi DENONTEK-BELL

3

Open 192.168.4.1

4

Sign in with device key 123

5

Enter your bell times and Save

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Know your controller



Antenna · Wi-Fi for your phone and, if you connect it, for the school Wi-Fi.

POWER · On while the controller has power.

STATUS · Shows that the controller is working and talking to your phone.

RING · Lights up while the bell is ringing.

Sticker · On the unit: **S.NO** (serial number) and **CLOUD** code. Keep them safe: you need them for warranty and for DENONTEK Cloud.

Specifications

Model	DEN-280
Firmware	v3.0 (updates over Wi-Fi)
Bell output	1 bell output (Bell A)
Bell times	Up to 100 bell times
Timetables	7 (Regular, Ramadhan, Summer, Winter, Exams, Temporary-1, Temporary-2)
Holidays	Up to 16 holiday periods
Ring time	1 to 30 seconds per ring; up to 20 repeats with a 1 to 30 second gap
Clock	Built-in real-time clock; automatic internet time when connected to Wi-Fi
Wi-Fi	2.4 GHz, own access point + school Wi-Fi
Remote control	DENONTEK Cloud (cloud.denontek.com)

Installation

Place the controller indoors, in a dry place close to the bell wiring, where staff can reach it but students cannot.

Safety first. The bell works on mains power. Switch off the main supply before you connect any wire. If you are not sure, ask a qualified electrician.

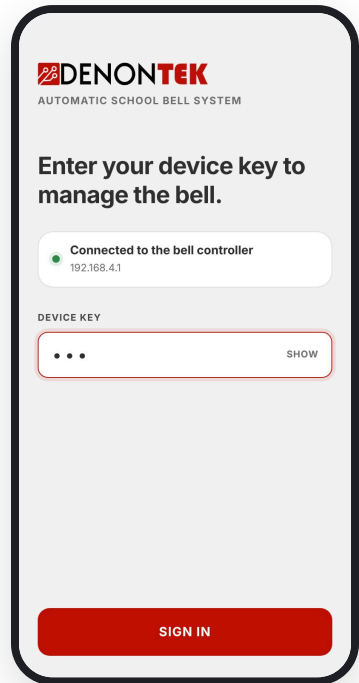
- 1 **Mount the bell** high on a wall where it can be heard across the campus.
- 2 **Mount the controller** on a wall or shelf. Keep the antenna standing up and away from metal boxes.
- 3 **Connect the bell wires** to the bell output of the controller, as marked on the unit.
- 4 **Connect the power** and switch on the supply. The **POWER** light comes on.
- 5 Wait about one minute for the controller to start. You can now connect your phone (Section 3).

Good to know

- The timetable is saved inside the controller. After a power cut it starts again by itself and keeps ringing on time.
- The controller does not need internet to ring the bells.
- Do not open the controller. Opening it ends the warranty.

Connect your phone

- 1 On your phone open **Settings** → **Wi-Fi**.
- 2 Join **DENONTEK-BELL**
Password **123456789**
- 3 If the phone says "No internet", choose **Stay connected**. This is normal.
- 4 Open Chrome or any browser and type **192.168.4.1**
- 5 Type the device key **123** and press **Sign in**.



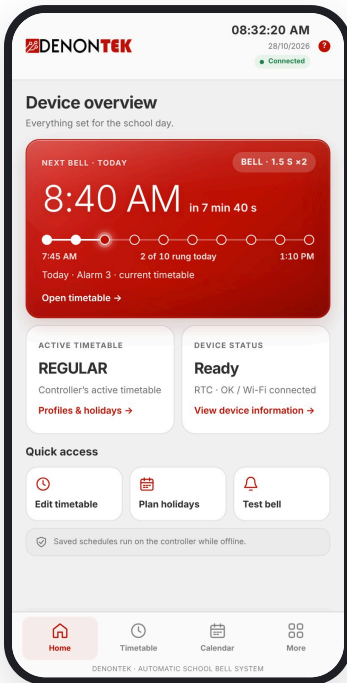
Sign in screen

One phone at a time

Only one phone can control the bell at a time. If another phone is connected, signing in here logs the other one out.

Change the default key. After the first setup, change the Wi-Fi password and the device key (Section 9), so that only your staff can change the bells.

The Home screen



Home

Clock · The controller's time and date at the top right.
Connected means your phone is talking to the controller.

Next bell · The time of the next bell today, how long until it rings, and how many bells have rung today.

Active timetable · The timetable in use, for example REGULAR.

Device status · Ready means the clock and the controller are fine.

Quick access · Edit timetable, Plan holidays, Test bell.

Bottom menu · Home, Timetable, Calendar and More.

Check your day

In the first week, open the Home screen each morning and check that the next bell is right.

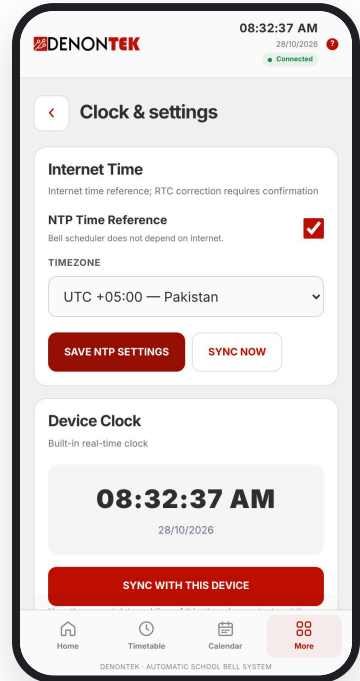
Set the clock

Bells ring by the controller's own clock. Check it once after installation.

- 1 Tap **More** → **Clock & settings**.
- 2 Make sure **Timezone** is **UTC +05:00 — Pakistan** and tap **Save NTP settings**.
- 3 Under **Device Clock** tap **Sync with this device**. The controller takes the date and time of your phone.

Internet time

When the controller is on the school Wi-Fi (Section 8), it checks the time from the internet. A correction of the controller clock always needs your confirmation. The bells never depend on the internet.



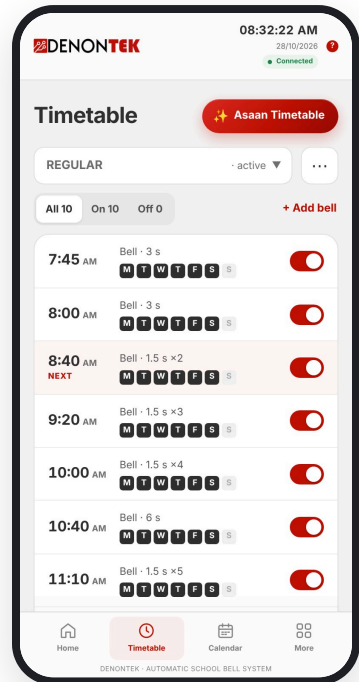
Clock & settings

Make your bell timetable

Tap **Timetable** in the bottom menu. Each line is one bell: its time, how it rings, its days and an on / off switch.

- 1 Tap **+ Add bell**, or tap a line to change it.
- 2 Set the bell (next page) and tap **Done**.
- 3 Repeat for every period, break and home time.
- 4 Tap **Save changes**. Nothing is saved in the controller until you do.

The switch on the right turns a bell on or off without deleting it. **NEXT** marks the next bell of today. Different timings on Friday? Make separate bells with only **F** selected, and remove **F** from the normal bells.

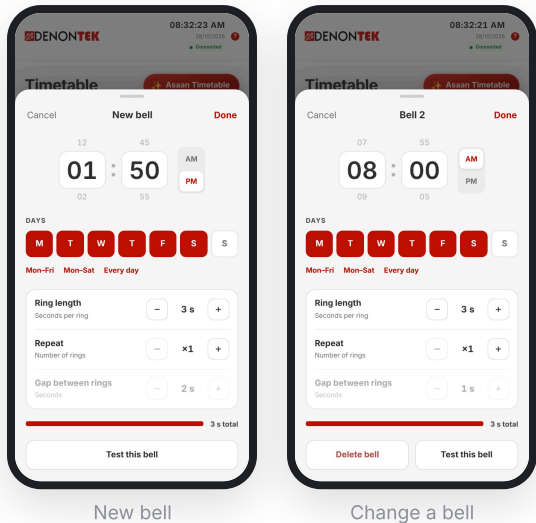


Timetable

✨ Easy Timetable

Not sure where to start? Tap the ✨ **timetable wizard** button and answer a few simple questions: school start time, period length, number of periods and break. The controller makes the full timetable for you, including Friday. Check it and tap **Save changes**.

Set one bell



New bell

Change a bell

SETTING	WHAT IT DOES
Time	Hour, minute and AM / PM of the bell.
Days	Tap the days it rings. Shortcuts: Mon–Fri, Mon–Sat, Every day.
Ring length	Seconds per ring. 3 s is a good start; use a long ring (6 to 8 s) for assembly and home time.
Repeat	Number of rings, for example ×2 for the second period.
Gap between rings	Pause between two rings (used when Repeat is more than 1).

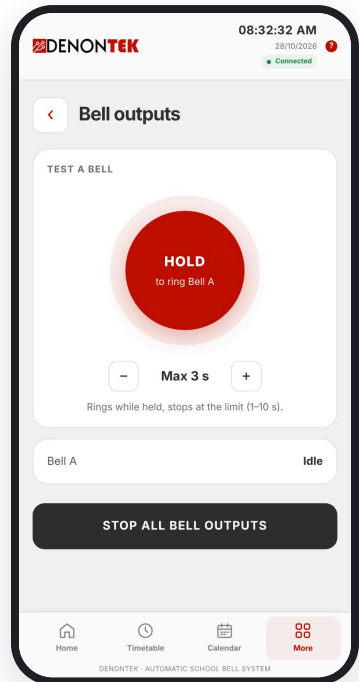
Test this bell rings it once now. **Delete bell** removes it. Tap **Done**, then **Save changes**.

Test the bell

- 1 Tap **More** → **Bell outputs**, or **Test bell** on the Home screen.
- 2 Press and **hold** the red **HOLD** button. The bell rings while you hold it and stops by itself at the limit.
- 3 Change the limit with **–** and **+** (1 to 10 seconds).
- 4 **Stop all bell outputs** stops the bell at once, at any time.

Bell A

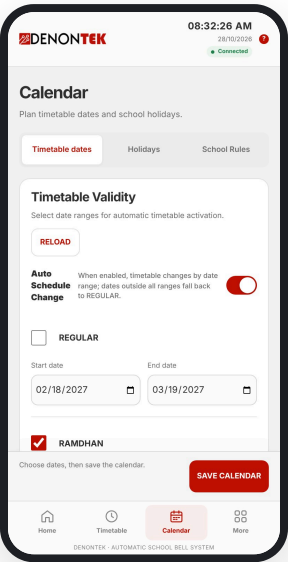
The DEN-280 has one bell output, **Bell A**. Its state shows under the button: Idle or Ringing.



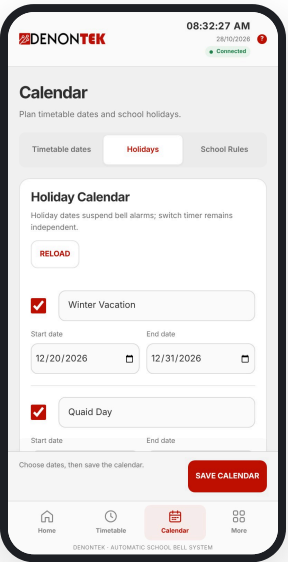
Bell outputs

Timetables, holidays and school rules

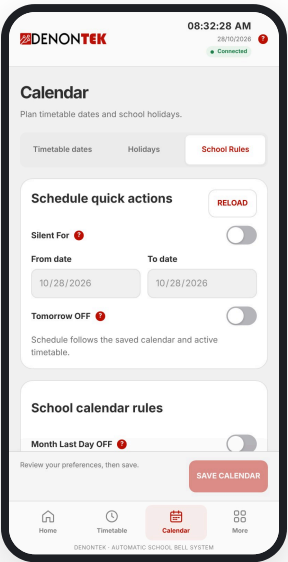
The controller keeps seven timetables: **Regular, Ramadhan, Summer, Winter, Exams, Temporary-1** and **Temporary-2**. Choose one at the top of the Timetable page to see or change it. Plan dates in **Calendar**:



Timetable dates



Holidays



School Rules

Timetable dates

Turn on **Auto Schedule Change**, tick a timetable and give it a start and end date, for example Ramadhan. Outside all dates the controller uses REGULAR.

Holidays

Tick a line, type a name and the dates. No bells on those days; they start again by themselves.

School Rules

Silent for (pause for some dates), Tomorrow off, Month last day off, Last working day off, Nth day off (e.g. second Saturday), and warnings for times outside school hours.

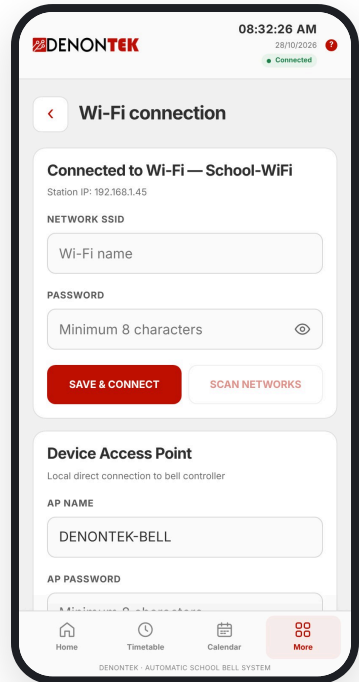
Tap **Save calendar** when you are done.

School Wi-Fi and DENONTEK Cloud

Optional. On the school Wi-Fi the controller gets internet time, firmware updates and DENONTEK Cloud.

- 1 Tap **More** → **Wi-Fi connection**.
- 2 Tap **Scan networks** and choose your school Wi-Fi (2.4 GHz), or type its name.
- 3 Type the Wi-Fi password and tap **Save & connect**. The top line shows **Connected to Wi-Fi**.

The **DENONTEK-BELL** network stays on, so you can always connect your phone directly.



Wi-Fi connection

DENONTEK Cloud · cloud.denontek.com

Manage the bells of all your branches from anywhere: live status, ring or stop, timetables and holidays.

- 1 Open **cloud.denontek.com** and enter your mobile number.
- 2 New account: type the **S.NO** and **Cloud code** from the sticker. You get a code on WhatsApp; then enter your school name and choose a password.
- 3 Next time log in with your mobile number and password. Forgot it? Tap **Forgot password** and use the S.NO and Cloud code.

Security and updates

Change the Wi-Fi password and device key

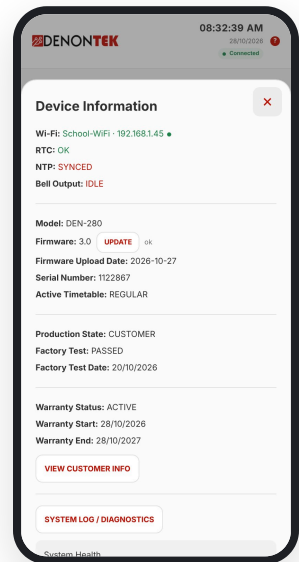
- 1 Tap **More** → **Wi-Fi connection** and scroll to **Device Access Point**.
- 2 Set a new **AP name**, **AP password** (at least 8 characters) and **Device login key** (3 to 8 characters).
- 3 Tap **Save AP settings**. Your phone disconnects; join the new Wi-Fi name with the new password.

Write the new details down and keep them in the school office. If you forget them, call DENONTEK support with the S.NO of the unit.

Firmware updates

- 1 Tap **More** → **Device information**.
- 2 Next to **Firmware**, tap **Update** when a new version is available, and wait. Do not switch off the power.
- 3 The controller restarts by itself. Your timetable stays as it is.

Only firmware signed by DENONTEK is accepted. Device information also shows the S.NO (Serial Number) and the warranty dates.



Device information

Troubleshooting

PROBLEM	WHAT TO DO
Bell rang at the wrong time	Check the clock (Section 4) and the timezone UTC +05:00. Check the active timetable on the Home screen.
Bell did not ring	Is the bell line ticked Enable and today's day ticked? Is today a holiday or a school rule day? Test the bell (Section 6).
RING light on but no sound	Check the bell wires and the power of the bell. Call an electrician or DENONTEK.
Cannot find DENONTEK-BELL	Stand near the controller. Check that POWER is on. Wait one minute after switching on. If you changed the AP name, look for your new name.
192.168.4.1 does not open	Turn off mobile data, keep the phone on the controller's Wi-Fi and try again. Type the address without www.
"Another phone is connected"	Only one phone at a time. Sign in to take over, or close the page on the other phone.
Forgot the device key	Call DENONTEK support with the S.NO.
Changes were lost	Always tap Save changes before leaving the Timetable page.

Warranty and support

30 days

Replacement warranty from the date of delivery.

1 year

Standard warranty from the date of delivery.

How to claim

- 1 Call or WhatsApp us with the **S.NO** from the sticker and a short description of the problem.
- 2 If needed, send the unit to us. Repairs under warranty are free of charge; outside warranty they are charged.

Not covered

- Damage from wrong wiring, high voltage, lightning, water or fire.
- Units that were opened or repaired by someone else.
- A missing or damaged S.NO sticker.

DENONTEK support

WhatsApp / Call

0334-4778077

Email

info@denontek.com

Website

www.denontek.com

Address

Basement Saeed Center, Shop# 12, Sahiwal