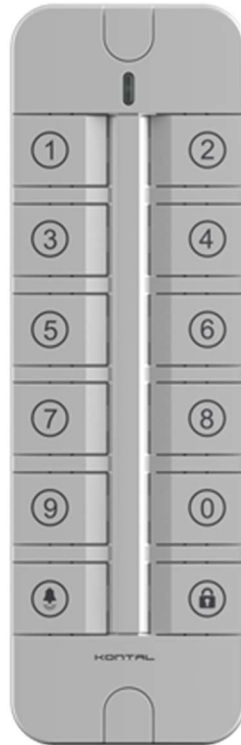


TGS

Keypad Access System



KONTAL

CE



Before using your device, be sure to read this user manual. Follow the steps described in the installation, electrical connection, and first startup sections in order. After this stage, the product owner/user must keep this user manual in a known and visible place for the entire service life of the product.

- Store the product in a dry environment. Otherwise, the product may malfunction.
- For products powered by batteries, the battery is not covered under warranty. Likewise, malfunctions caused by battery discharge or leakage in products that have reached the end of their shelf life are not covered under warranty.
- All service and repair operations may only be performed by Kontal Elektronik technical service. The product must not be tampered with by any other person.
- The operating voltage of each product is indicated on its label. Do not power the product with a source outside this voltage value.



- ✓ Using the product in a manner that does not comply with the items stated above may cause fire, serious personal injury, or damage to the product or the structure it is installed on. Kontal Elektronik San. ve Tic. Ltd. Şti. accepts no liability for such situations caused by the user.
- ✓ This symbol will be used for important points in the following sections.



- ✓ Do not touch the product's power supply points with bare hands.
- ✓ This symbol will be used for warnings related to voltage in the following sections.



- ✓ This symbol on the label indicates that the product's supply voltage is DC.



- ✓ This symbol on the label indicates that the product has reinforced insulation.



- ✓ This symbol on the product or its packaging indicates that this product must not be treated as normal household waste. Instead, the product must be handed over to the designated collection points for the recycling of electronic equipment. Improper disposal of the product may lead to negative consequences for the environment and human health.



- ✓ The responsibility for this document and its revisions, and its legal ownership, belongs to KONTAL ELEKTRONİK SAN. VE TİC. LTD. ŞTİ. Unauthorized alteration or modification of this document is prohibited.



- ✓ Make sure the system is properly grounded for the product to operate correctly.

1. DESCRIPTION

Keypad access systems are widely used in any area where entry and exit need to be controlled. Where a code is required to enter a location, this product can be used to provide code-controlled access. In addition to being easy to use and install, our keypad access system, manufactured under the product code TGS, also has an attractive appearance, making it an important solution for these types of applications. Detailed information about this product is given below.

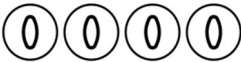
2. TECHNICAL SPECIFICATIONS

Model	TGS	
Product Code	K024-01	
Operating Voltage	12/24V DC	
Operating Current	90mA @ 24V DC	
Operating Temperature	-20 °C +55 °C	
Number of Channels	2	
Contact Type	Lock Relay	Bell Relay
	Dry Contact (NO)	Dry Contact (NO)
Contact Rating	30V DC 1A / 125V AC 0.3A	
Relay Activation Time	0.5s (min.) / 99s (max.) Adjustable	
Weight	166g	
Dimensions (Width x Height x Depth)	43 x 135 x 17.5 mm	

2.1. BELL FUNCTION

Step	Action / Key Combination	Description
1.		When idle, the bell relay output is in the NO (Normal Open) state. The bell relay output is the Green colored cable set. As long as you press the “Bell” button, the bell output will be in the short-circuit (NC, Normal Close) state.

2.2. Entering the User Code

Step	Action / Key Combination	Description
1.		The default user code is “0000”. If you have changed your code, enter it using the code you have set.
2.		After entering your code, press the “Lock” button to trigger the lock relay and open your door. When idle, the lock relay output is in the open-circuit (NO, Normal Open) state. The lock relay output is the Blue colored cable set. The lock relay will remain activated for the duration you have set.

LED Indications and Warnings

- **While entering the code:** The LED on the device lights up RED; you can enter your code while this light is on (10-12 seconds).
- **If the code is correct:** The LED turns BLUE, the lock relay activates, and the buzzer sounds two short "beeps". The LED turns off when the relay releases.
- **If the code is incorrect:** The LED continues to flash RED and the buzzer sounds a "beep" for about 1 second.
- **After 3 consecutive incorrect attempts:** The device puts itself into lockout mode for 25 seconds; during this time the RED LED lights up and the buzzer sounds a warning. You can try again once this time has elapsed.

2.3. Accessing the Settings Menu

Step	Action / Key Combination	Description
1.		Press and hold the "Lock" button for about 5 seconds
2.		The buzzer will sound a "Beep Beep" warning and the RED LED will start flashing.
3.		After Step 2, you will need to enter the "Admin" code to access the "SETTINGS" menu. The default admin code is "1234". If you have changed your code, enter it using the code you have set.
4.		Press the "Lock" button to confirm your code.

LED Indications and Warnings

- **If the code is correct:** The LED lights up BLUE, the buzzer sounds two short "beeps", and you enter the settings menu. While in the menu, the LED stays solid BLUE; if no action is taken within 10 seconds, the device automatically exits the menu.
- **If the code is incorrect:** The LED continues to flash RED and the buzzer sounds a "beep" for about 1 second. After 3 consecutive incorrect attempts, the device enters lockout mode for 25 seconds.

2.3.1. Changing the User Code

To perform this operation, you must first complete the "Accessing the Settings Menu" steps so that the LED stays solid BLUE.

Step	Action / Key Combination	Description
1.	 	In the settings menu, option number 1 User lets you change the code. To enter this menu, press "1" and "Bell" in order.
2.		After pressing "1" and "Bell", enter the new code. Set your code using only 0,1,2,3,4,5,6,7,8,9 digits. up to 15 digits long.
3.		Press the "Lock" button to save your new code.

- **Success:** The buzzer sounds 3-4 quick "beeps" and the BLUE LED turns off; your new code has been saved and you have exited the settings menu.
- **Failure:** If the operation does not complete, repeat the steps above from the beginning.

2.3.2. Changing the Admin Code

To perform this operation, you must first complete the “Accessing the Settings Menu” steps so that the LED stays solid BLUE.

Step	Action / Key Combination	Description
1.	② 🔔	In the settings menu, option number 2 Admin lets you change the code. To enter this menu, press “2” and “Bell” in order.
2.	* * * *	After pressing “2” and “Bell”, enter the new code. Set your code using only 0,1,2,3,4,5,6,7,8,9 digits. up to 15 digits long.
3.	🔒	Press the “Lock” button to save your new code.

- **Success:** The buzzer sounds 3-4 quick "beeps" and the BLUE LED turns off; your new code has been saved and you have exited the settings menu.

- **Failure:** If the operation does not complete, repeat the steps above from the beginning.

2.3.3. Changing the Lock Relay Activation Time

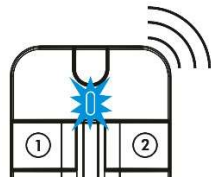
To perform this operation, you must first complete the “Accessing the Settings Menu” steps so that the LED stays solid BLUE.

Step	Action / Key Combination	Description
1.	③ 🔔	In the settings menu, option number 3 is used to set the lock relay's activation time . To enter this menu, press “3” and “Bell” in order.
2.	* * * *	After pressing “3” and “Bell”, enter the number of seconds you want the relay to stay activated. Set the time using only 0,1,2,3,4,5,6,7,8,9 digits. You can set a time of up to 99 seconds.
3.	🔒	Press the “Lock” button to save the new value.

Example time values;

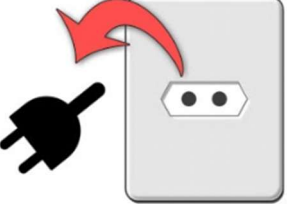
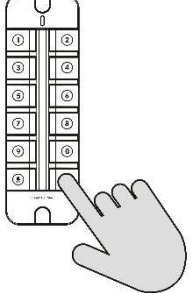
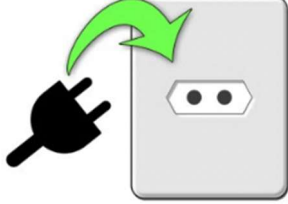
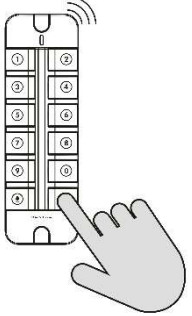
Value	Relay Activation Time
0	0.5 seconds (Minimum)
1	1 second
8	8 seconds
15	15 seconds
40	40 seconds
73	73 seconds
99	99 seconds (Maximum)

If the change is successful, the buzzer will sound 3-4 quick "beeps" and the blue LED will turn off. Your new time has been saved and you have exited the settings menu.



If the change is not successful, repeat the steps above from the beginning.

2.4. Restoring Factory Settings

Step 1	Step 2	Step 3	Step 4
 Turn off power to the system.	 Lock  button and keep it held down through step 4.	 Turn power back on to the system.	 Keep holding the Lock button until you hear the buzzer sound a series of fast "beeps".

Once you reach step 4, your keypad device's factory settings will have been restored;

Factory Settings	
User Code	0 0 0 0
Admin Code	1 2 3 4
Lock Relay Time	0.5 seconds

3. TGS – LED & BUZZER STATUS TABLE

You can quickly check your device's LED and audible warnings using the table below:

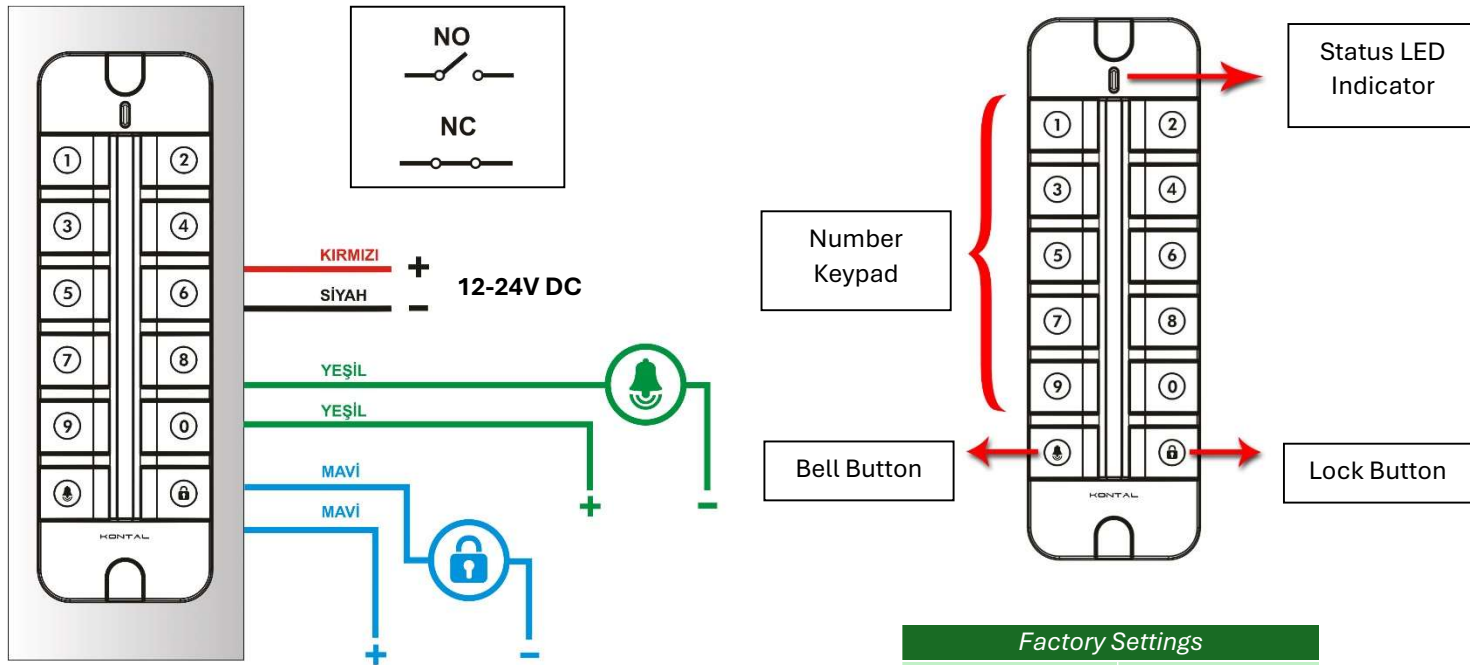
LED & Buzzer Status	Description
BLUE LED lights up (briefly)	Code/operation read correctly, the relevant relay was triggered.
BLUE LED stays on continuously	The device is in the settings menu.
RED LED flashes	An incorrect code was entered.
RED LED + buzzer sounds a long "beep"	3 consecutive incorrect code entries; the system is in lockout mode for 25 seconds.
Buzzer sounds two short "beeps"	Successfully entered the settings menu.
Buzzer sounds 3-4 quick "beeps"	Code/time change saved successfully.
Buzzer sounds "Beep Beep" (2 short beeps)	Settings menu entry combination detected (Lock held 5s), waiting for the admin code.
Buzzer sounds rapidly (during factory reset)	You can release the Lock button; the device has been restored to its factory settings.

4. TGS – QUICK REFERENCE CHART

You can find a summary of the key combinations for all frequently used operations below:

Operation	Key Sequence	Description
Opening the Door	Code (0 0 0 0) + [Lock]	Open the door using the default user code.
Ringing the Bell	[Bell]	Press the "Bell" button to trigger the bell relay.
Entering the Settings Menu	[Lock] (held 5s) + Admin Code (1 2 3 4) + [Lock]	Enter the settings menu using the admin code (LED stays solid BLUE).
Changing the User Code	1 + [Bell] + New Code + [Lock]	While in the settings menu, set the new user code (0-9, up to 15 digits).
Changing the Admin Code	2 + [Bell] + New Code + [Lock]	While in the settings menu, set the new admin code (0-9, up to 15 digits).
Changing the Lock Relay Time	3 + [Bell] + New Time + [Lock]	While in the settings menu, set the lock relay's activation time (0-99 s).
Restoring Factory Settings	Turn off power → hold [Lock] → turn power back on → keep holding [Lock] until you hear fast beeps	Resets the device to factory settings (code 0000 / admin 1234).

5. WIRING DIAGRAM



Make sure the system is not powered during installation.

6. INSTALLATION

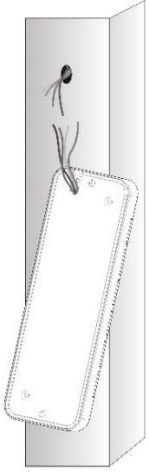


Figure 1 - Cable Connections

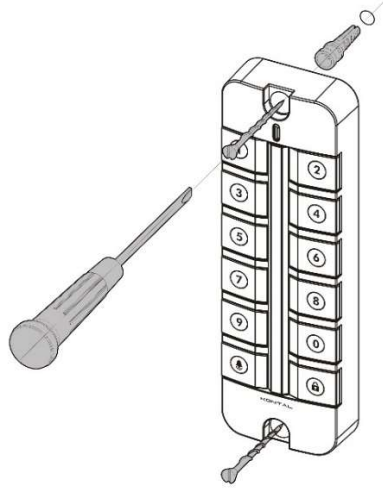


Figure 2 - Surface Mounting

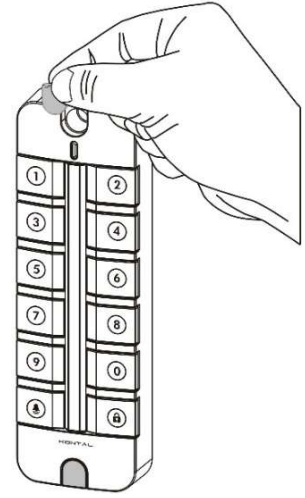


Figure 3 - Fitting the Screw Cover Caps

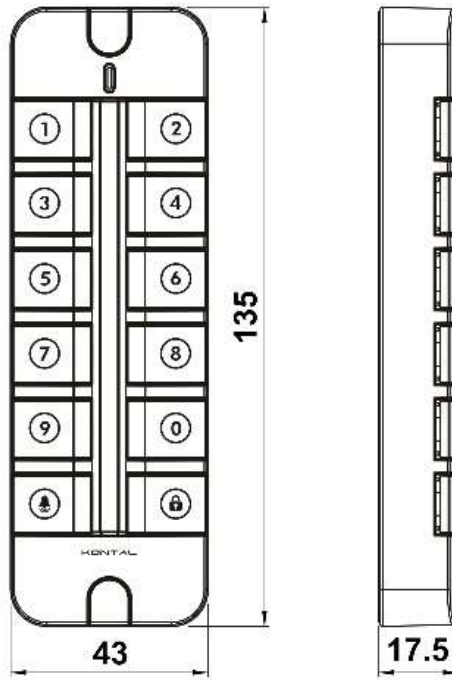


Figure 4 - Dimensions

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