

DGT AK700



Series Overview

The DGT AK700 is a secure, split-design wireless access control system engineered for single-door protection. It consists of a wireless waterproof keypad, a dedicated wireless exit button, and a central controller with an integrated power supply. Utilizing a secure 433MHz rolling code encryption algorithm, this system isolates the controller safely indoors to prevent external tampering.

Functions

Split-Design & Encrypted Security:

Uses a 433MHz Rolling Code algorithm to secure wireless communications between the keypad, exit button, and controller.

1,100 User Capacity:

Stores up to 1,100 total user profiles, split between 1,000 common users and 100 dedicated visitor slots.

Dual-Frequency Card Support:

Compatible with both 125 KHz EM and 13.56MHz Mifare proximity cards, alongside 4–8 digit PIN lengths.

Ultra-Low Power Consumption:

Keypad and exit button require no hardwiring; running on standard batteries, they can operate for up to one year.

Weatherproof Keypad Protection:

Fully conforms to IP65 standards, guaranteeing reliable outdoor operation under harsh climates (-40°C to 60°C).

Full Peripheral & Relay Output:

Features an integrated 2A maximum Form C relay with dedicated onboard connections for door contacts, external alarms, and doorbells.



Technical specification

User Capacity	1100PIN / card users 1000 common users + 100 visitor users
PIN length	4-8 digits
Card Type	125KHZ EM Card/13.56 MHz Mifare card
Wireless Keypad	3 units of AAA batteries
Controller	110V-240V AC Input, 12V DC ± 20% Output
Wireless Button	1 unit of 2032 Lithium battery
Idle Current	Wireless Keypad: ≤10uA; Controller: ≤20mA; Wireless Button: ≤10uA Wireless Keypad: ≤80mA; Controller: ≤50mA Wireless Button: ≤30mA
Communication Frequency	433MHz
Communication Distance	10~15m
Relay Contact Load	2Amp Maximum
Timer Delay (Optional)	5s/10s/Toogle Mode
Enviroment	Outdoor (Wireless Keypad)
Operating Temperature	-40°C~60°C (-40°F~140°F)
Operating Humidity	10%RH ~ 90%RH
Physical	ABS Shell or Zinc-Alloy
Dimension	L134 x W48 x D25 (mm) - ABS L148 x W43.5 x H22 (mm) - Metal Controller: L117 x W85 x D30 (mm) Wireless Button: L80 x W38 x D15 (mm)
Unit Weight	Wireless Keypad: 150g (ABS) / 300g (Metal) Controller: 250g Wireless Button: 34g
Shipping Weight	500g (ABS) / 700g(Metal)

Connection Diagram

