

# Smart Circuit Breaker

IoT LoRaWAN Sensor



## Description

Our best smart circuit breaker system is a state-of-the-art solution for managing electrical power distribution in homes and commercial buildings. It features advanced technology that integrates with smart home systems and allows users to monitor and control their electrical circuit breaker from their smartphone or tablet. The system also offers real-time energy monitoring and analysis, providing insights into energy consumption patterns and helping users to save energy and reduce costs. Additionally, the smart circuit breaker system includes advanced safety features such as over-current protection and surge protection, ensuring the safety of electrical systems and appliances. With its sleek design, easy installation and user-friendly interface, the Smart Circuit Breaker System is a must-have for any modern and connected home or building.

## Features of HKT DC-10

- Remote Control
- Connected to the server to remote control by app application.
- Easy to use
- Highly integrated, easy networking, easy to expand and easy construction.
- Long Communication Distance
- Max communication distance up to 11km by LoRaWAN communication technology.
- Controlled Efficiency
- Collecting information of electricity consumption and monitoring information of electricity consumption such as time, electricity, power, power factor, etc. That guide users enhance power safety and improve energy efficiency.
- Good Compatibility
- Compatible with standard LoRaWAN gateways and third-party network server platforms .

## HKT provides customized services:

- ODM
- Pre-sales & After-sales Services
- Technology Support

## Specification

Parameters	Description
Local leakage self-test	Support self-test by manual
Mobile phone operating leakage self-test	Support self-check by mobile application
Leakage self-test	Support any specified date and time every month detection automatically
Delivery of current automatically	Support automatic delivery of current after self-test
Voltage, current, leakage current monitoring	Support query of voltage, current and leakage current data in real time
Power	Set the reached power value cut-off
Short Circuit Protection	5-10 times rated current,
	0.04secs short circuit protection
Leakage protection	30mAh leak current, 0.1seconds circuit protection
Overload Protection	set rated current value, rated load power-off protection
Lack-voltage alarm	voltage<100V alarm
Overvoltage protection	voltage>250V/430V alarm, voltage>263V/456 power off protection
Outage alarm	strike a light alarm
Over temperature protection	monitoring the temperature in real-time; >70°C alarm, >90°C blackout
Lightning surge protection	bleeder current 15KA
Push by manual	On/off control
Electric control	On/off control
Mobile Remote control	On/off control
Security Messages recording	Supports 12 months

Mobile APP Management	Support customer power safety and energy consumption management
PMS	Property current and voltage load fluctuation, electricity alarm
Battery Left	Support power metering, recording hourly, daily and monthly, 12 months can be queried
OIT Interface	TCP/IP, RS485, Zigbee, NB-IoT, 2G
Connect Video Surveillance	Support docking app with any brand
Centralized management	Support centralized statistical analysis of smart power management & safety supervision platform

## Application

- Apartment
- Our best smart circuit breakers can be installed at the home power inlet side to measure electrical energy and remotely monitor status. At the same time, protect people and family property.
- Hotel
- Installed in the guest room power distribution network. Smart circuit breakers not only protect people, but also protect hotel property. At the same time, it can minimize outages caused by anomalies, so as to improve customer satisfaction.
- Rental
- It is uniformly installed in the power distribution box in the corridor to protect the property safety of tenants and landlords. Smart circuit breakers not only realize the power metering and pre-payment functions, but also realize the purpose of recharging the electricity bill before use.
- Park lighting
- Smart circuit breakers can also be installed in distribution boxes outside the park. Able to remotely control street lights. Based on the timing function of

the cloud platform, the street lamp can be powered and turned off regularly every day.

- Farm
- The distribution box is generally installed on the utility pole next to the farm to realize the remote control of street lamps and single metering.