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## Smart IoT Solution

Smart Home / EMS / Smart Farm



**eZEX Corporation**

eZEX in Your Business, in Your Life

## Home & Building & Farm



Smart Home



Smart Office



Smart Building



Smart Farm

eZEX will go forward with C2O(Carbon dioxide-to-Oxygen) solution to pursue the home automation by smart devices, time-saving by efficiency, upgrading quality of your life in the next IoT generation

eZEX is a IoT specific company growing steadily with endless research and development, to meet the customer's belief and demand.  
With the catch phrase of "Adding technical value, for life's value", we are developing the customized easy contents with all our knowledge and technologies.

eZEX in Your Business, in Your Life

## Easy & Excellent & Energy



With Customer



In Lifestyle



For Value



Plus Contents

**" We study customer's life, add technology to the value."**

eZEX thinks human first. This is the eZEX's management philosophy and principle of eZEX technology. We study human first, before we develop products. We study Environment, lifestyle first. From this data, we make products for more happiness, valuable and harmonized life with our nature.

In eZEX technology, human is center. We think human first, and add technology to the value.

“since 1999, building eZEX’s own Technology”

1999 ~ 2008

- | Founded eZEX Corporation
- | Developed/supplied Home network system to Honeywell
- | Developed Home Health-Care Tele-Monitoring System for Samsung Electronics

2009 ~ 2011

- | Developed Smart Energy Gateway / Exported
- | Developed LCD In-Home Display
- | Developed Smart Home IoT devices

“eZEX grows continuously with customers”

2012 ~ 2014

- | Supplied the devices for Na-ju city Green smart city project
- | Developed Control boards for Smart Appliance / Exported
- | Developed GPS wearable device(Band) / Supplied

2015 ~ 2017

- | Developed the Smart Home IoT devices for telecom companies
- | Supplied the devices for KEPCO SGS (Smart Grid Station) project (year 1-3)
- | Joined in KEPCO Smart Home business

Technology of **Human** understanding  
Company understanding **Customer** well

eZEX technology research for human. Develop products for customers  
We would think more, research more, develop more for customers.



Smart IoT Solution

○ Smart Home



Remote control, monitoring, managing adds convenience to the life. Gas safety, anti-theft function makes relief life. Analyzing electricity usage and usage pattern makes electricity costs predictable, and can be saved.

○ Smart Office



Analyzing the electricity usage pattern and decrease the useless power. Business, Office management could be more efficient. By office environmental care, workplace can be optimized with customer’s satisfaction.

○ Smart Building



By EMS (Energy Management System), building’s energy could be analyzed and could be saved. Ventilation system in the building can be controlled by remote control. By wireless technology, existing buildings could be installed too.

○ Smart Farm



By EMS (Energy Management System), building’s energy could be analyzed and could be saved. Ventilation system in the building can be controlled by remote control. By wireless technology, existing buildings could be installed also.



○ Smart Home Solution

Category	Products
<b>Smart Energy Management</b> <ul style="list-style-type: none"><li>- Analyzing electricity usage pattern</li><li>- Estimation of Electricity cost, saving</li><li>- Automated Schedule / Mode management</li></ul>	Smart Socket(Standby power shut-down ) Smart Light Switch / Electric Switch Smart Overall control switch ( ) Smart Energy Meter(CT)
<b>Smart Security / Gas safety</b> <ul style="list-style-type: none"><li>- Enter record and remote open control</li><li>- Gas leakage detection / Valve closing control</li><li>- Motion sensing / Alert when vacant</li></ul>	Smart Digital Doorlock Smart Gas Sensor Smart Light Switch Smart Motion Sensor Smart Gas valve actuator
<b>Smart Cooling / Ventilation</b> <ul style="list-style-type: none"><li>- Temperature / Humidity check / Air conditioning</li></ul>	Smart Temperature / Humidity Sensor Smart Temperature control (Separate room control) ( ) Smart Multi-IR remote controller Smart rs485-to-ZigBee converter
<b>Smart Floor Heating</b> <ul style="list-style-type: none"><li>- Remote Floor Heating / Boiler control / Status check</li><li>- Separate room (Upto 6 rooms) temperature controller , separate valve control</li></ul>	
<b>Smart Display</b> <ul style="list-style-type: none"><li>- Remote control and monitoring devices</li><li>- Visitor check and Gate open</li></ul>	Smart Energy Display

○ Smart Office Solution

Category	Products
<b>Smart Energy Management</b> <ul style="list-style-type: none"><li>- Analyzing electricity usage pattern</li><li>- Estimation of Electricity cost, saving</li><li>- Automated Schedule / Mode management</li><li>- Shutting down unnecessary power</li></ul>	Smart Socket(Standby power shut-down) ( ) Smart Light Switch / Electric Switch Smart Overall control switch ( ) Smart Energy Meter(CT)
<b>Smart Security</b> <ul style="list-style-type: none"><li>- Enter record and remote open control</li><li>- Motion sensing and management</li></ul>	Smart Digital Doorlock Smart Motion Sensor
<b>Smart Heating/Cooling, Environment care</b> <ul style="list-style-type: none"><li>- Temperature/Humidity check</li><li>- Air conditioning/heating control</li><li>- Measures hazardous material in Office(shop)</li></ul>	Smart Temperature / Humidity Sensor Smart rs485-to-ZigBee converter Smart Environment Sensor Smart Electric Switch Smart Multi-IR remote controller
<b>Smart Display</b> <ul style="list-style-type: none"><li>- Remote control and monitoring devices</li><li>- Visitor check and Gate open</li></ul>	Smart Energy Display
<b>Smart Interior lighting</b> <ul style="list-style-type: none"><li>- Interior Light ON/OFF,</li><li>- Dimming control and management</li></ul>	Smart LED Light Dimmer

○ Smart Building Solution

Category	Products
<b>Smart Energy Management</b> <ul style="list-style-type: none"><li>- Analyzing electricity usage pattern</li><li>- Estimation of Electricity cost, saving</li><li>- Automated Schedule / Mode management</li><li>- Shutting down unnecessary power</li></ul>	Smart Socket(Standby power shut-down) ( ) Smart Light Switch / Electric Switch Smart Overall control switch ( ) Smart Energy Meter(CT)
<b>Smart Security</b> <ul style="list-style-type: none"><li>- Enter record and remote open control</li><li>- Motion sensing and management</li></ul>	Smart Digital Doorlock Smart Motion Sensor
<b>Smart Ventilation Care</b> <ul style="list-style-type: none"><li>- Temperature/Humidity check,</li><li>- Air conditioning/heating control</li><li>- Ventilating system control, Monitoring</li><li>- Measures hazardous material in Building</li></ul>	Smart Temperature / Humidity Sensor Smart rs485-to-ZigBee converter Smart Environment Sensor Smart Electric Switch Smart Multi-IR remote controller
<b>Smart Fire Prevention</b> <ul style="list-style-type: none"><li>- Fire prevention by Automatic Fire prevention system</li></ul>	Smart Energy Display
<b>Smart Interior lighting</b> <ul style="list-style-type: none"><li>- Interior Light ON/OFF</li><li>- Dimming control and management</li></ul>	Smart LED Light Dimmer

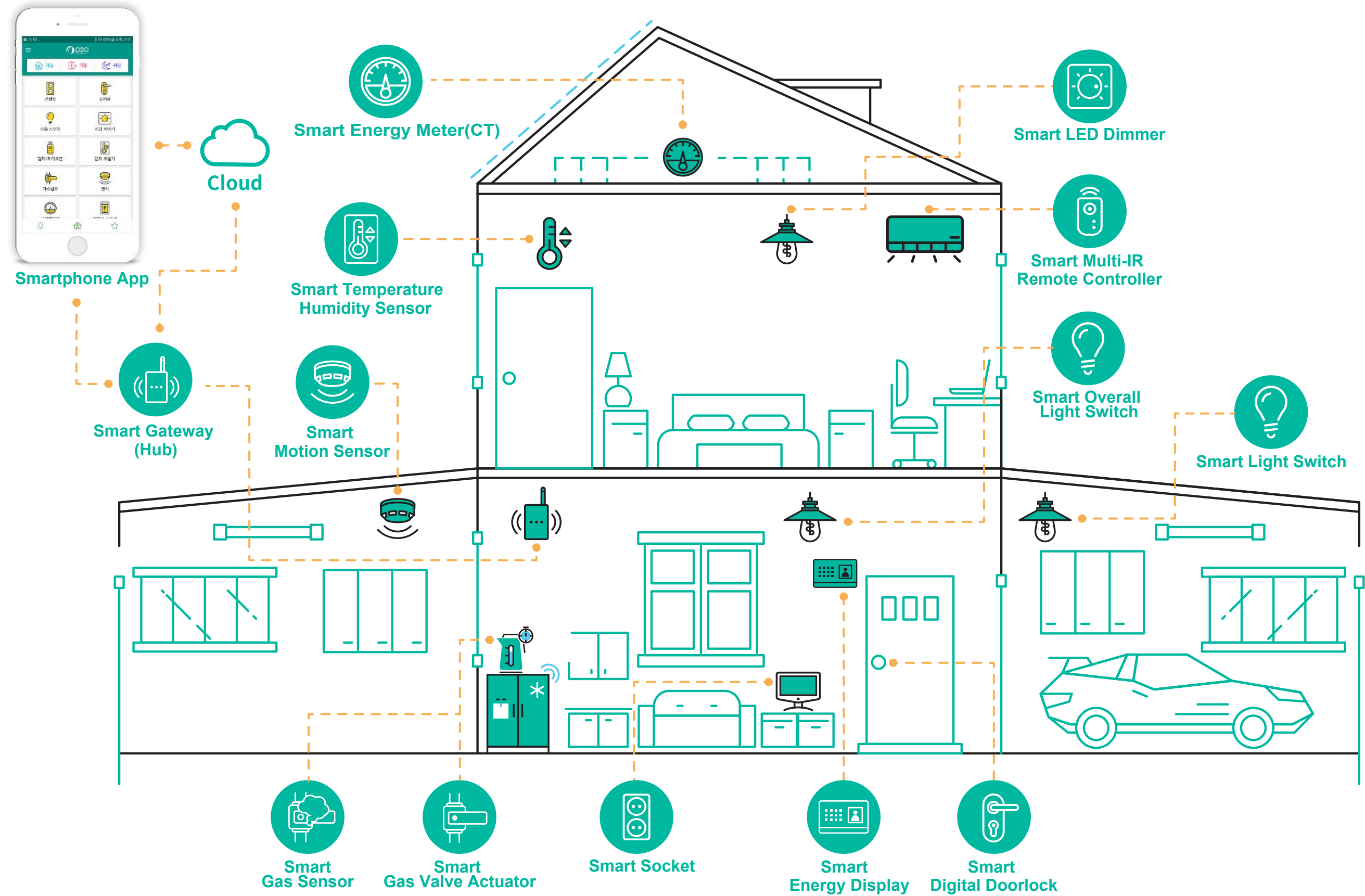
○ Smart Farm Solution

Category	Products
<b>Smart Energy Management</b> <ul style="list-style-type: none"><li>- Analyzing electricity usage pattern</li><li>- Estimation of Electricity cost, saving</li><li>- Shutting down unnecessary power</li></ul>	Smart Socket(Standby power shut-down) ( ) Smart Light Switch / Electric Switch Smart Overall control switch ( ) Smart Energy Meter(CT)
<b>Smart Security</b> <ul style="list-style-type: none"><li>- Motion sensing and management</li></ul>	Smart Motion Sensor
<b>Smart Ventilation Care</b> <ul style="list-style-type: none"><li>- Automatic control by schedule management</li><li>- Heating, Fan, Water, Light control</li></ul>	Smart Socket(Standby power shut-down) ( ) Smart Electric Switch

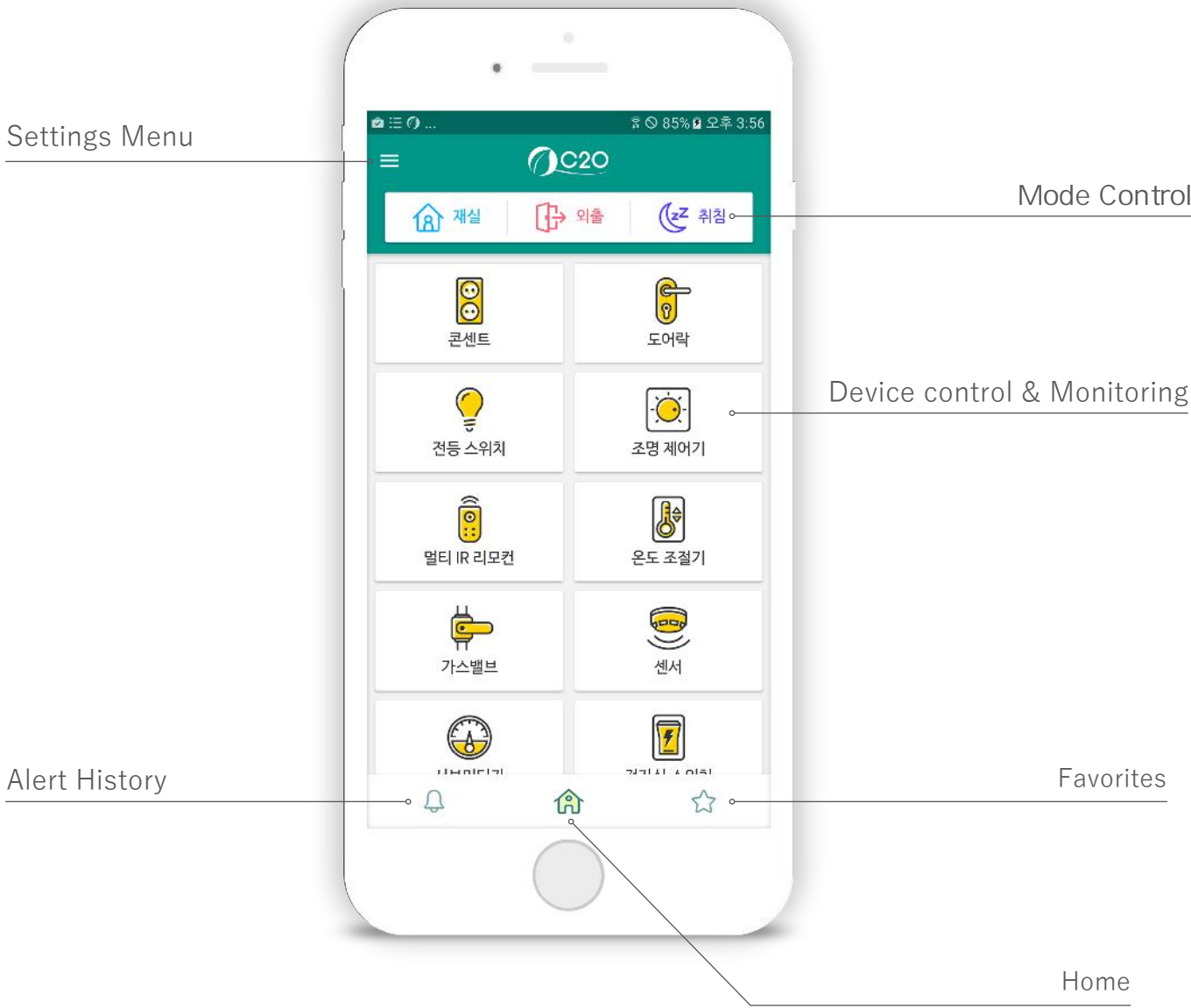


Apartment house over 30 households are obliged to install high-efficiency devices( ) to evaluate the performance of eco-friendly houses.





# C2O App introduction(Site map / tree)



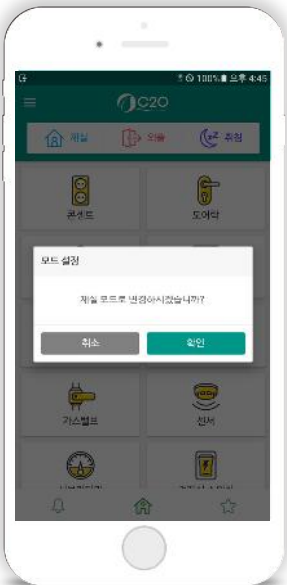
## Automatic Control

Auto-run by condition settings makes devices linked.



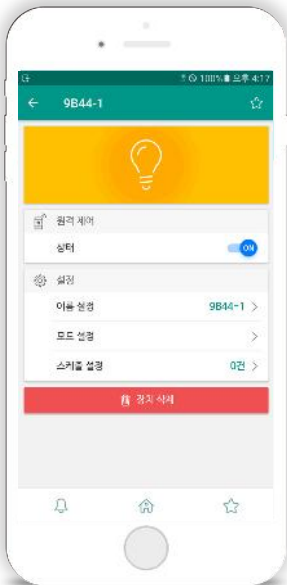
## Power usage Managing

Daily, Weekly, Monthly, Annual usage history and estimated electricity cost



## Mode Control

Mode(Home/Outside/Sleep) makes the devices controlled by modes.



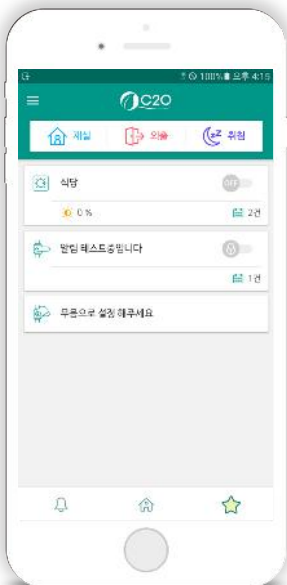
## Device control & Monitoring

Monitor current device status and control



## Alert History

Battery replace, Gas leakage, illegal breach, pollution alert can be checked.



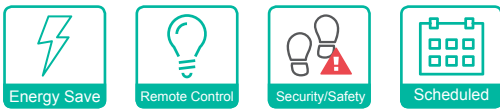
## Favorites

Favorite devices can be controlled in one menu

# Smart Light Switch

Functions

- Real-time lighting status monitoring
- Remote Light control(On/Off)
- Capacitive touch On/Off



Product information

Smart Light switch allows the user to remotely check the real-time status and remotely turn ON/OFF the lights using remote server / mobile app.

In home/Office/Factory, simply replace the existing switch no matter how old the building is.

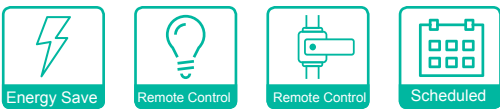
Applicable for all ordinary home 2-line type(1 line for control board, 1 line for light) and 3-line type(2 lines for AC power, 1 line for light)



# Smart Overall Switch

Functions

- Overall light control
- Gas Control
- High efficiency device(Overall switch)



Product information

Smart Overall switch can be installed in entrance, enables control all the lights and gas

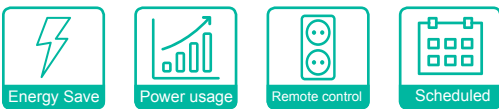
Wireless connection, remote server and mobile app enables checking the real-time status and control the devices.



# Smart Socket

Functions

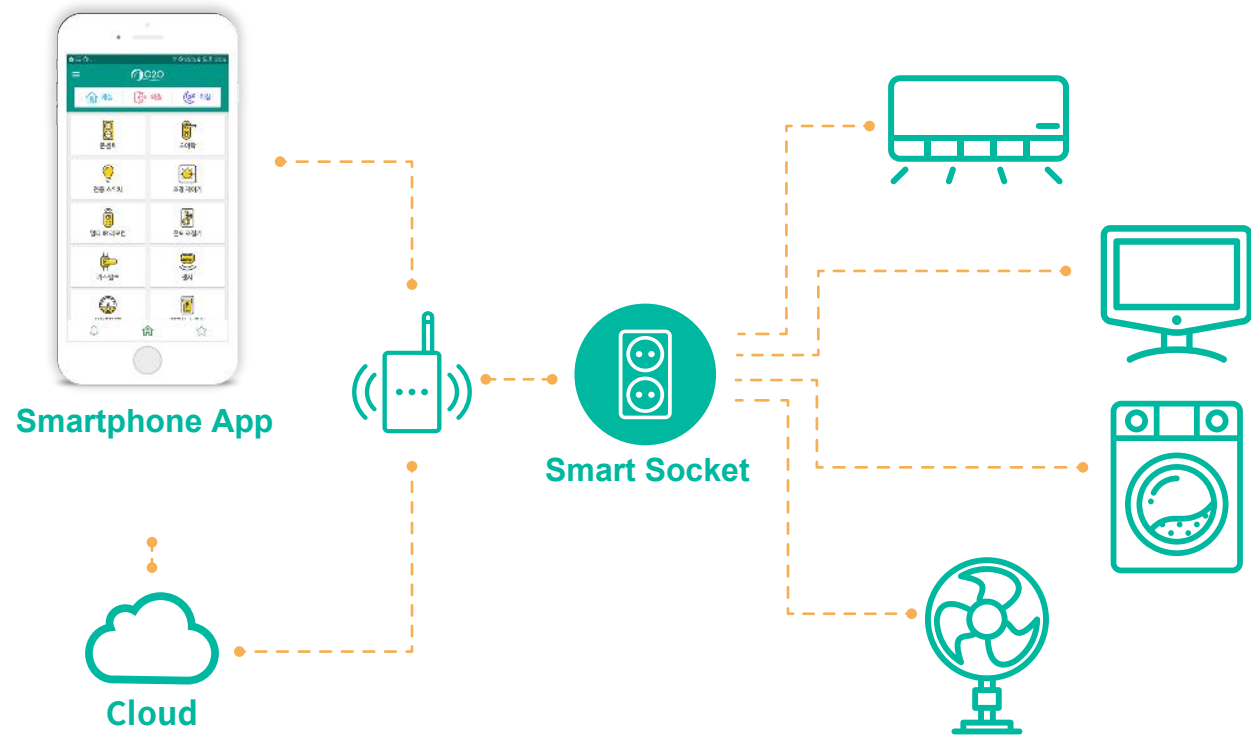
- Remote Power control
- Real-time power usage measurement (instantaneous power, accumulate power, current, voltage, power factor)
- Auto/Manual cut off stand-by power and studies pattern of stand-by power
- High efficiency device(Standby-power cut off device)



Product information

Smart Socket measures real-time power usage and cut-off the standby-power by wireless connection through mobile app or remote server. It can remotely turn on/off the socket power.

In home/Office/Factory, simply replace the existing switch no matter how old the building is.



# Smart Energy Meter(CT)

## | Functions

Input power usage measure of constant AC power

Collects power consumption data when user requires

Without construction of AC power, current sensor is coiled around the power cable, which makes easy install



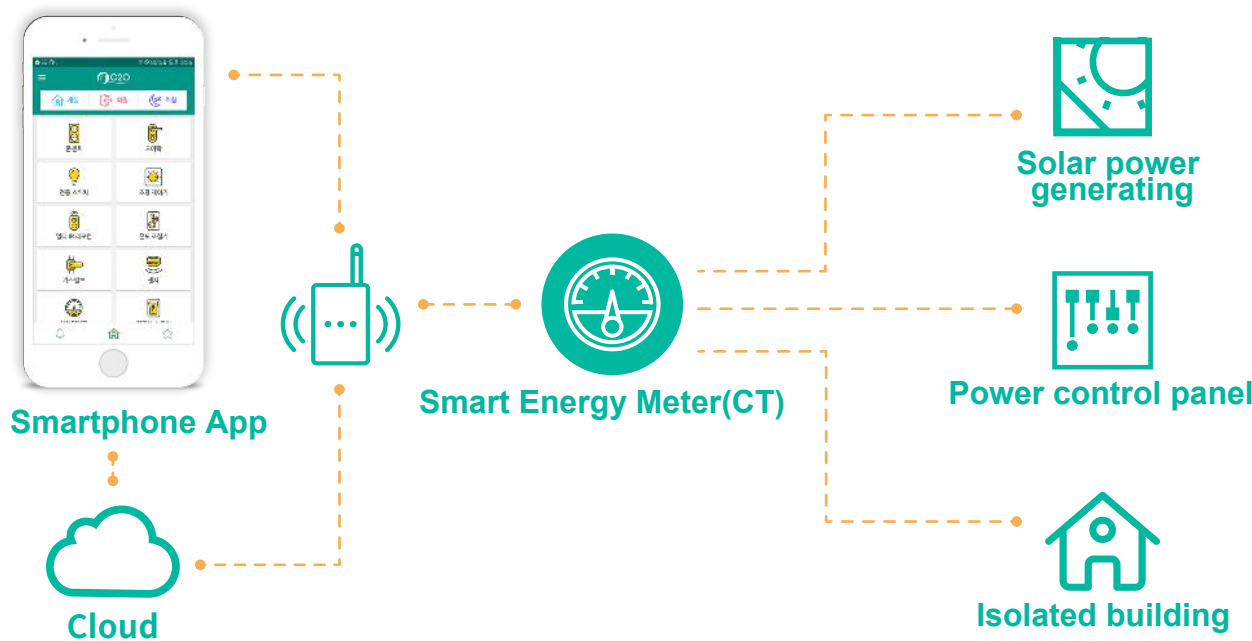
## Product information

Smart Energy Meter(CT) measures power usage data of home or building, can be controlled by manage server and mobile application.

Measures real-time instantaneous power usage, daily/monthly cumulative power usage.

On panel board in isolated building including house, building, restaurant, pension, warehouse, barn, power usage monitoring when used with general light switch on panel board.

Easy install with no additional wire works to existing building and easy attach/detach when moving or transfer.



# Smart Electric Switch

## | Functions

Remote power shut down

Collects power consumption data when user requires

Measures input power usage in real-time (instantaneous power, accumulate power, current, voltage, power factor)



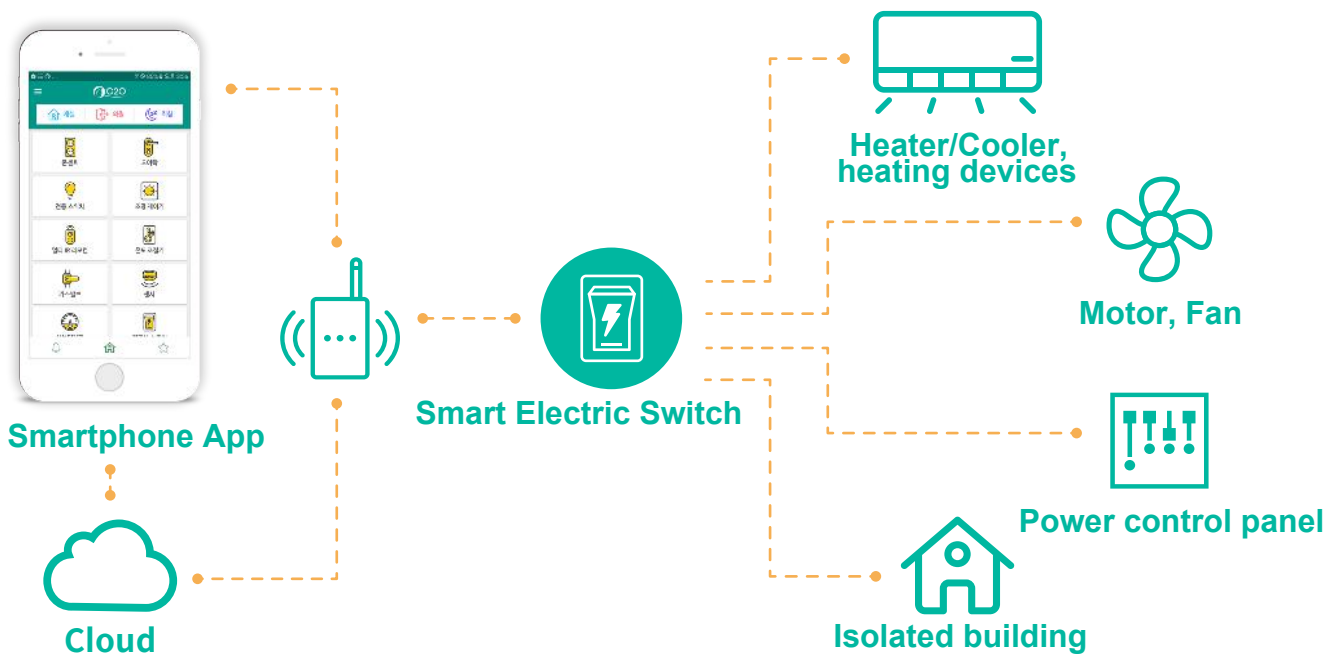
## Product information

Smart Electric Switch measures the power consumption in real-time by remote server or mobile application, and shut down the power remotely.

Checking real-time power usage, daily, monthly power usage.

On panel board in isolated building including house, building, restaurant, pension, warehouse, barn, etc. Electrical input of small motor, heater/cooler and other heating devices.

Easy install with no additional wire works to existing building and easy attach/detach when moving or transfer.



# Smart LED Dimmer

## Functions

- Remote control and monitoring of LED brightness
- Various control methods of multiple lights in group/zone
- Automatic brightness control when linked with motion sensor



## Product information

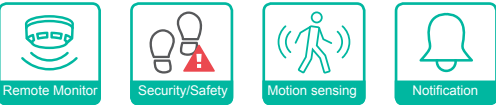
Smart LED dimmer checks the status of LED lights and control them by remote server or mobile app.

Brightness control is available depending on the LED light function and specification.

# Smart Motion Sensor

## Functions

- Human movement detection by heat ray sensor
- Battery type, AC type available
- Simple install, transfer, move when using battery type
- Automatic notification of battery replacement



## Product information

Smart motion sensor detects human movement with heat ray sensor. Status is wirelessly transmitted to remote server or mobile app, available to use with other devices.

# Smart Digital Doorlock

## Functions

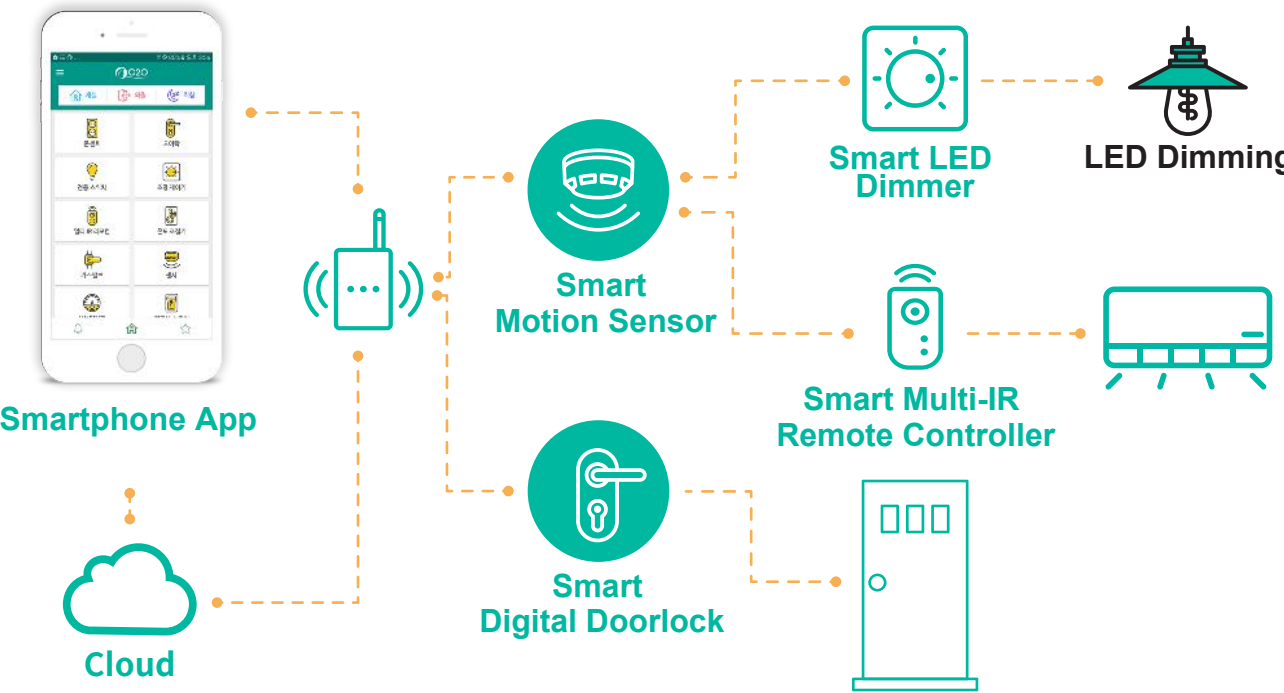
- Remote management and control of open/close status
- Remote management of access record
- Multiple password (optional)



## Product information

Smart Digital doorlock enables remote open/close control and provides access records on remote server or mobile app.

Access control and record management at household, office area, warehouse and shop makes safe and secure.







# Smart Gas Sensor

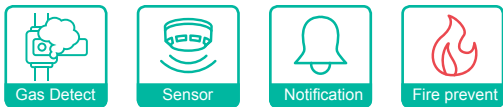
Functions

- LNG/LPG Gas leakage detection
- Gas leakage alarm
- Using AC power

Product information

Smart Gas sensor detects LNG/LPG gas leakage, transmit alerts by wireless to remote server or mobile app.

Automatic gas valve closing on gas leakage when used with Gas valve actuator.



# Smart Gas Valve Actuator

Functions

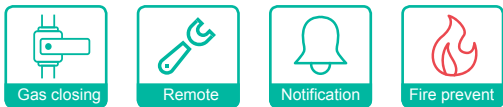
- Automatic gas valve closing setting with digital timer
- Remote status check of gas valve, remote closing
- Battery low alert
- Auto closing when overheated (3min over 65°C)

Product information

Smart Gas valve actuator can be installed on gas valve, available to close the valve automatically, with manual modes and timer function.

Valve status can be checked on remote server or mobile app, by wireless connection.

When used with Gas sensor, gas valve automatically closes when gas leaks.



Using battery, easy to install and move.



# Smart Gas Main Valve Actuator

Functions

- LNG/LPG Gas leakage detection
- Gas leakage alarm
- Remote valve status check
- Remote gas main valve closing

Product information

Smart Gas main valve actuator can be installed at house or building. When LNG/LPG gas leakage have detected, it sends alert to remote server or mobile app, and close the main valve automatically.

Remote status check and closing of gas main valve.



# Smart Multi-IR Remote Controller

Functions

- Remote control of IR controlled Home appliances
- Study of IR remote controller patterns

Product information

Smart Multi-IR remote controller is a infrared controller which control air conditioner,TV,etc. It can be remotely controlled/managed by remote server or mobile apps from anywhere.

When used with Temperature/Humidity sensor, motion sensors, it can save the energy when maintaining the indoor environment.



# Smart Temperature / Humidity Sensor

- | Functions
- Measuring indoor temperature / humidity

Battery low alert

Remote monitoring of temperature/humidity

## Product information

Smart temperature/humidity sensor measures indoor environment, sends data to remote server or mobile app.

When used with other IoT devices, ventilating makes building fresh environment.

Using battery, easy to install and move.



# Smart Energy Display

- | Functions
- Smart device monitor, control, management

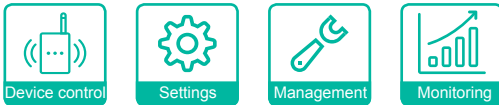
Power usage monitoring

Visitor check and control

## Product information

Smart energy display remotely connects smart devices by wireless network. Power usage for each devices are gathered, status can be compared in various ways, and also the carbon emission.

When used with the video doorphone, visitor can be checked and controlled.



# Smart RS485-to-ZigBee Converter

- | Functions
- Wire RS-485 connection(DIP switch setting)

Wireless ZigBee connection with Smart Gateway

Convert wired connection to wireless connection

## Product information

Smart RS485 to ZigBee converter adds the wireless control of wired devices without additional construction.

By Smart gateway, remote control through management server or mobile app.

Runs on AC power.



# Smart Gateway

- | Functions
- Smart device monitor, control, management

Power usage monitoring

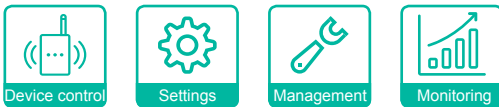
Visitor check and control

## Product information

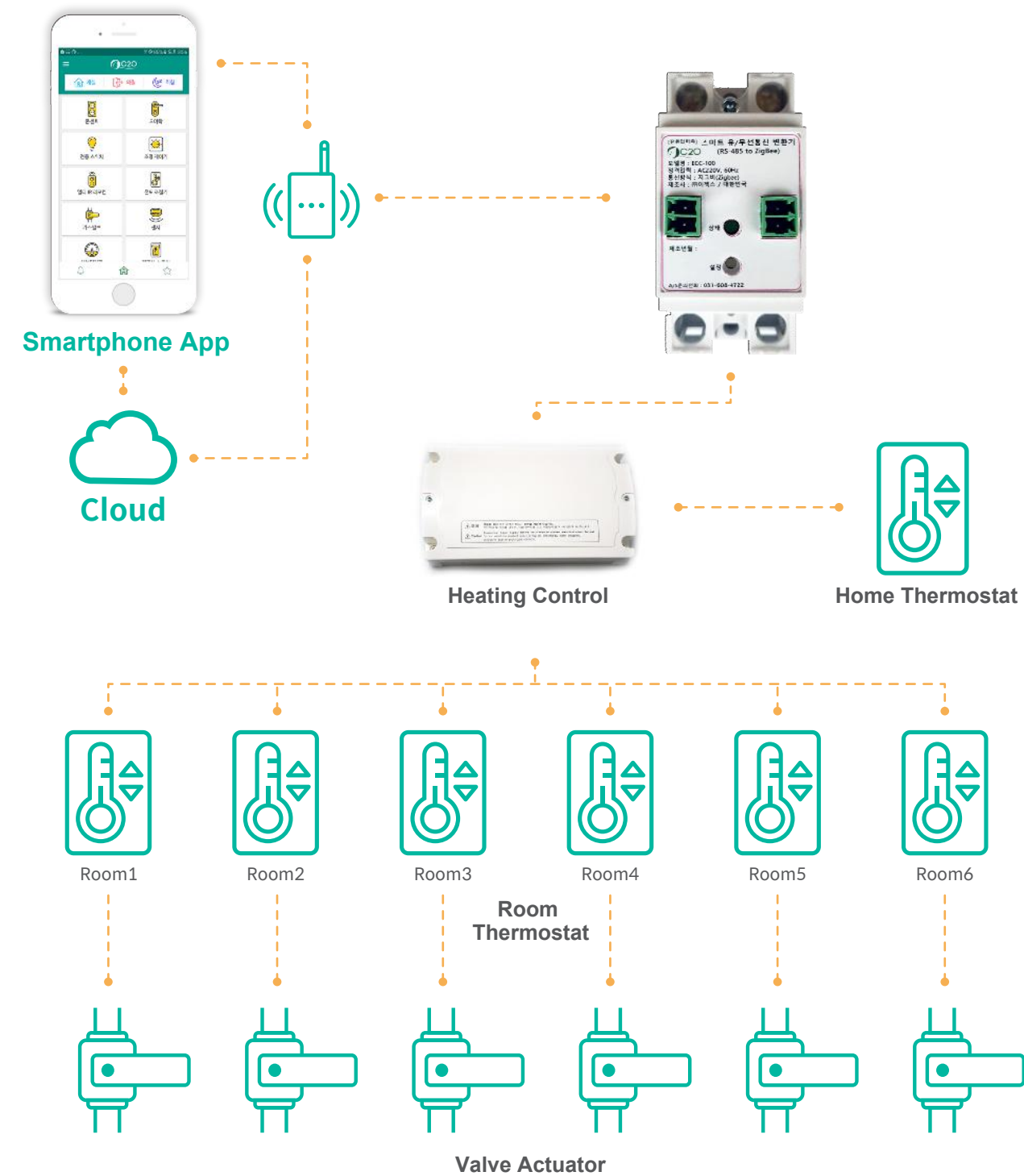
Smart energy gateway remotely connects smart devices by wireless network.

Power usage for each devices are gathered, status can be compared in various ways, and also the carbon emission.

Automatic device control by schedule / modes / scenario.

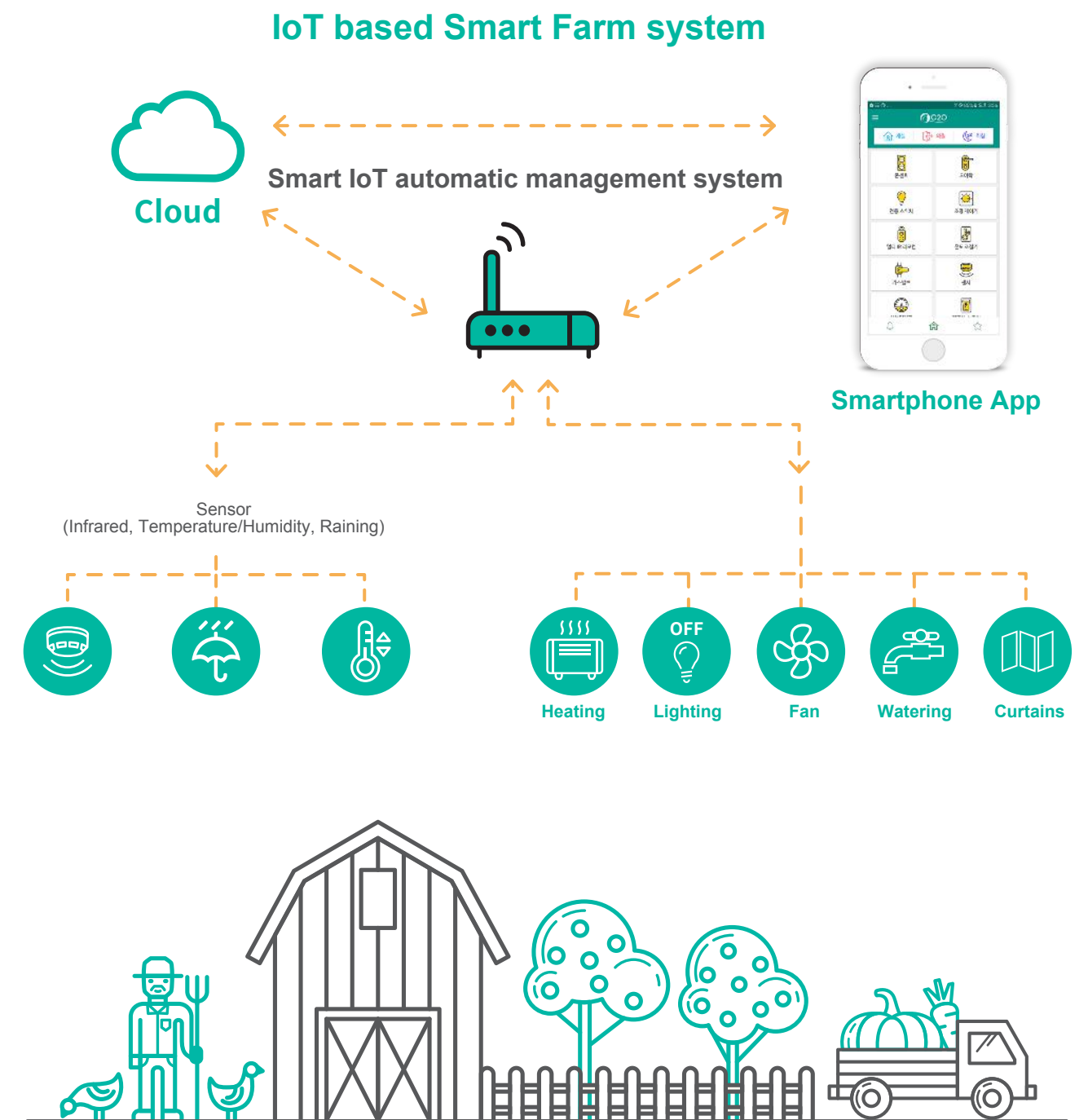


# Smart Heating Control System



# Smart Farm System

Applied to house farm, control the watering devices automatically depending on the season and climate. Gathers the life information of crops, and can apply the optimized data for each crops.





Product specification, Function



Category	Overall Switch	Light Switch				Socket	Smart Sub-meter(CT)	ElectricSwitch	LEDDimmer	Digital doorlock (main key)	Motion sensor	Gas leakage sensor	Gas valve actuator	Gas safety set			Multi-IR remote controller	Temperature/ humidity sensor	RS485 to ZigBee converter	IHD	Gateway		
		3 lines		2 lines										2 gang		Control						Actuator	Gas leakage sensor
Connection	ZigBee			ZigBee, Z-Wave				ZigBee														ZigBee WiFi Ethernet	
Button / Status indication	Capacitive touch button RESET button					Power, Automatic button	setting button		setting button	Capacitive touch type input		Setting button	Up, down, 1 hour, power button	OPEN button, Close button	X	X	Setting button	Setting button	DIP S/W	Touch Screen Power Switch, Function button	Join button power Switch		
	Light status LED indication					Join status, standby status, output power status LED indication	status LEDindication		status LED indication		Motion sensing, Operation status battery low LED indication	Alarm, Power LED	LCD Display Indication LED Buzzer	Open / JOIN / LEAVE LED (GREEN), Close LED (ORANGE)	X	Power LED (GREEN), Gas alert LED (ORANGE)	Status LED indication	status LED Zigbee LED		7" Color LCD, status LED (power, ZigBee, WiFi)	power, ZigBee, WiFi status LED		
Specification	Rated 16A	1gang	2A (2A per gang)		1gang	360W	Rated 16A	Max 80A	Rated 16A	- Touch key registration : within 45 ea  - password : 4-19 digits upto 4 passwords  - Open/close : password input, capacitive touch key, mobile app	- Detection range : Dimensional  - Range 10m / 84"  - Zone : 37Pairs (74 Zone)	- Alert Density LNG (600~12,500ppm)  LPG (600~4,500ppm)		- Pipe radius : 15A, 20A, 25A - closing time : within 15 seconds - closing angle : 90 degree - target gas : LNG / LPG - Detection : 0~100LEL / 20% LEL / LNG(0.06~1.25%) - Type : Independent, Diffuse, Catalytic combustion - Range 9m, 17m' - Alert speaker included			- IR(Infrared)  - input : pattern study or database - output : ±15", 10m	RS485 RX/TX, DIP Switch (address)					
		2gang	4A (2A per gang)		2gang	Total 720W (360W per gang)																	
		3gang	6A (2A per gang)		3gang	Total 720W (360W per gang)																	
		4gang	10.8A (1gang 3A, 2~4gang 2.6A)		4gang																		
		5gang	13.4A (1gang 3A, 2~5gang 2.6A)		5gang																		
		6gang	16A (1gang 3A, 2~6gang 2.6A)		6gang																		
Power	AC220V, 60Hz					100 ~ 240VAC /50Hz, 60Hz	AC220V, 60Hz		12Vdc or 24Vdc	DC 6V (AA * 4EA)	AC Type : AC 220V 60Hz  Battery : DC 3V (CR123A Li-ion Batt)	220V 60Hz	DC 6V (AA * 4EA)	AC220V, 60Hz	DC 12V	DC 15V	AC Type : AC 110V/220V 50/60Hz  Battery : DC 3V (AA * 2pcs)	AC Type : AC Adapter 5V 1.2A  Battery : DC 3V (AA * 4pcs)	100-240V AC 50-60Hz	100-240V AC 50-60Hz	100-240V AC 50-60Hz		
Temperature, Environment	indoor 0°C ~ +50°C 0 ~ 70%	indoor 0°C ~ 40°C 0 ~ 70%		indoor 0°C ~ 40°C 0 ~ 70%		indoor 0°C ~ 40°C 0 ~ 70%	indoor -10°C ~ +50°C 0 ~ 70%	indoor 0°C ~ 40°C 0 ~ 70%		indoor -10°C~+50°C 0~95%	indoor -20°C ~ +40°C 0 ~ 95%	indoor 0°C ~ +50°C 0 ~ 70%			indoor	indoor 0°C ~ +50°C 0 ~ 70%	indoor -20°C ~ +70°C 0 ~ 100%	indoor	indoor	indoor			
Power usage	0.5W					Normal : 1W  Standby cut-off : 0.5W	1W or below		1W or below		standby : 10uA or below  transmit : 45mA or below	3W or below		Normal 0.5W Alert 2W		Normal 2W Alert 2.1W	0.5W		0.5W	normal : 6.46W  standby : 3.0 W	normal : 2.6W  standby : 2.1 W		
Dimension(mm)	122.3*75*51.5	1~3gang : 122.3*75*51.5				123*75*58	32*70*40 (Same size as Circuit breaker)		32*70*40	External : 73.5*302.5*22.5	102*64*47	70*110*37	68*136*65	137*74*45	114*70*120	107*70*40	38Ø*122.6	70*105*40	32*70*40	270*198*32	110*134*33.1		
		4~6gang : 122.3*123*51.5					Sensor : 26.6*40.8*28.9 (Hole Dia Ø10)			Internal : 75.5*310.5*35													