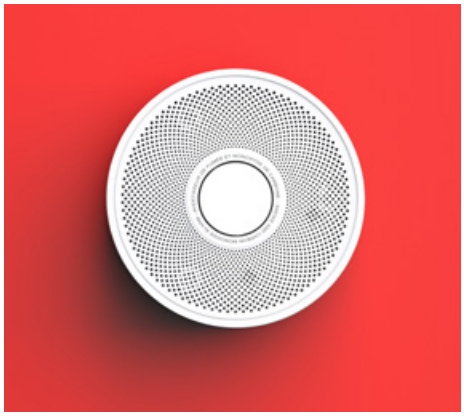
SHEPHERD™

Smart Home Security



The Crow Group provides innovative and creative solutions for residential and commercial applications with an extensive range of smart panels and a broad portfolio of indoor and outdoor wired and wireless peripherals to create smart and secure homes.

Our products are available worldwide through a dynamic network of distributors and sales offices to professional installers as well as central and care monitoring stations.

Crow, a market leader in Security since 1977, is now adding deep expertise and development in artificial intelligence, video analytics and smart cloud providing solutions for Security, Monitoring and Telecare.

CROW
The Crow Group

YOUR SECURE CHOICE SINCE 1977

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SHEPHERD™ Security System

Communication

Smart Security Analytics

Ecosystem

Alarm Panel

Keypad & Remote Keyfobs

Repeater

PIR Detector

PIRCAM Detector

PIR Curtain Detector

Alarm Panel

Magnet contact device

Audio Verification Module

Glass Break Detector

Smoke Detector

Flood Detector

Indoor Sounder

SHEPHERD™ Communication

Shepherd™ is Crow's next generation of Security and Safety panels, offering the highest standards of reliability in data transmission via its multiple encrypted communication paths and advanced Cloud services suite.

√ Smart and wide Portfolio for Security, Safety & Home Comfort devices.

√ Ecosystem with Smart Connected Home Devices and Peripherals with extended life time.

√ SOTA "Software Update Over-The-Air" for easy remote configuration, wireless equipment upgrade and testing.

√ FOTA "Firmware Over-The-Air" for devices.

√ Advanced diagnostic tools for optimal installation and configuration.

√ Artificial Intelligence with detection and recognition.

√ Outstanding Crow Cloud and Smart Shepherd™ Apps.

√ CMS/ ARC Management Software Support.

√ Big Data turned into Smart Data.

√ Compatible with Amazon Alexa and Google Assistant for IoT Voice activation.

Smart Security Analytics

Big data is about both storage and analytics. It gives the ability to gather massive amounts of digital information to analyze, visualize and draw insights that enable prediction and prevention of potential threats.

Crow turns Big Data into Smart Data for the benefit of CMS, installers and users

Intelligent video motion detection

Artificial Intelligence with detection and recognition

Analysis and Storage for watchlisting and prevention

Individuals in the identification scene vs. real-time stored database

Crow has developed security and surveillance applications that perfectly fit either residential or commercial environments.

Crow's solutions in the Smart Security market take advantage of the full suite of Crow's analytics algorithms, software and Cloud running on co-located servers, or as a cloud based web service running on public or private cloud.

Crow's analytics make devices truly smart by analyzing content in real-time, extracting metadata, sending out alerts and providing intelligence to the whole security Ecosystem.

We are able to extract just the valid motion in a scene, filtering out noise such as lighting changes and animal motions, thereby reducing false alarms to virtually zero.

Key features include object classification (human/pet/vehicle), intrusion detection and line crossing, people/vehicle counting object left/removed and video summary.

SHEPHERD™ Ecosystem

SHEPHERD™

Alarm Panel

Zones	Up to 64 Wireless Zones (ISM & DECT ULE)
Areas	Up to 4 Partitions (areas)
Users	Up to 20 users with codes and/or pendants
Arming Modes	Total, Stay, Latchkey, Duress, Bypass
Outputs	Up to 32 Wireless Outputs (ISM & DECT)
Visual Verification	Up to 16 indoor or outdoor PIRCAM detectors
Connectivity	3G/LTE, WI-FI, IP, FULL DUPLEX VOICE
RF Network Types	Two Way ISM bands 868 and 916 Mhz (5 Radio Frequency Agility) DECT Audio and DECT ULE
Immunity	RF : AES 128 NETWORK : TLS
Operating Range	500 meters open space
Report Channels	Up to 8 report channels: TCP/IP, Wi-Fi, GSM/GPRS, SMS
Protocols to CMS	Crow Proprietary Protocol, SIA DC09 –SIA DCS
Programming	Via Web browser interface
Log Events	More than 2000 events
Time Zones	Up to 8 Time Zones
Mounting	Wall mount with front & back tamper protection
Power Input	110V or 230V AC 50/60Hz
Power Supply Type	Internal AC/DC Adaptor 6V/2A
Backup Battery Type	Battery Pack 3.7V/2600mAh
Battery Autonomy	12 Hours / optional 24 hours
Battery Charge Max Current	Approx. 500mA
Dimensions & Weight (Inc. battery)	234 mm x 166 mm x 32 mm / 1.40Kg
Operating Temperature	-10° C to 55 °C
Compliance	EN50131 Security Grade 2 Class II

SH-KP-ADV & FW2-RMT

Wireless Keypad and Remote Keyfobs

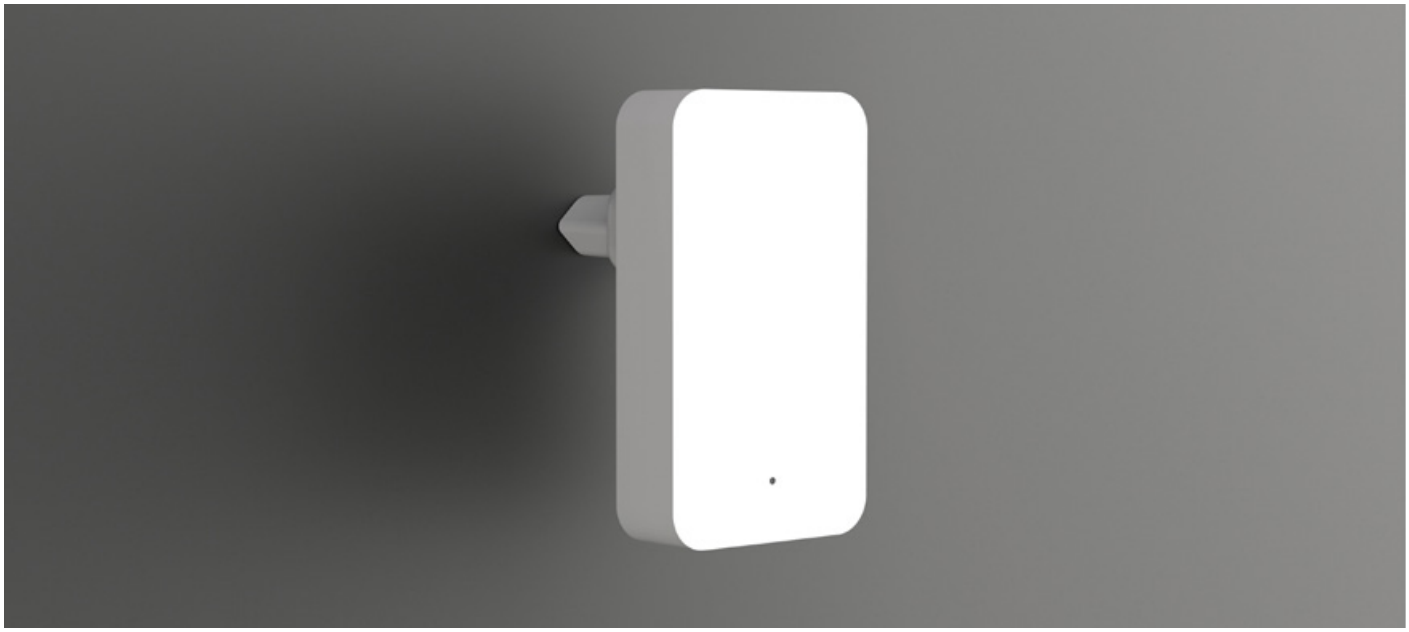
SH-KP is the Shepherd™ panel's fully wireless icon keypad with RFID & internal sounder. FW2-RMT is a 4-button two-way wireless keyfob for arming and disarming the Shepherd™ panel with visual LED confirmation.

The FW2-RMT as well as the proximity tags can be attached to a keychain.

	SH-KP-ADV	**FW2-RMT**
Operation Method	Icon LED Keypad & RFID	4 independent and programmable buttons
Communication Protocol	Freewave2™ two-way ISM GFSK with 5 frequencies & LBT	Freewave2™ two-way Protocol GFSK with 5 frequencies & LBT
Frequency Band	868MHz or 916MHZ	868MHz or 916MHz
Identification	Unique ID serial number – 24 bit	Unique ID serial number – 24 bit
Proximity Tag	RFID ISO 15693	N/A
Functions	Arm, Disarm, Zone Bypass, Panic Alarm, Chime Local Programming mode (users/tags)	Arm / Disarm Panic Alarm
Communication Range	500m open space	150m open space
Current Consumption	Average current: 80uA Max Current: 350mA at beeps	Standby: <1 µA Transmission: ~30 mA
Battery	2 x Lithium batteries 1.5V AA Energizer L91	Lithium 3V Size CR2032
Battery Life	Up to 3 years	Up to 5 years
Operating Temperature	-10°C to +55°C	-10ºC to +55ºC
Dimensions	152mm x 87mm x 28mm	87mm x 38mm x 12mm
Weight	200 gr	20 gr
Compliance	EN50131 Security Grade 2 Class II	EN50131 Security Grade 2 Class II

SH-RPT

Wireless Repeater



The SH-RPT enables continuous measurement of communication quality. It features LED indications for activity, diagnostics and power failure. The Shepherd supports up to 4 SH-RPT.

	SH-RPT
Communication Protocol	Freewave2™ two-way ISM GFSK with 5 frequencies & LBT
Frequency Band	868MHz or 916MHZ
Identification	Unique ID serial number – 24 bit
Range	500m open space
Functions	Range Extension Alarm, Tamper, Supervision, Low Batt
Power	230V or 120V
Battery Backup	Battery pack 3.7V/250mAh Polymer
Battery Autonomy	Up to 8 hours
Operating Temperature	-10ºC to +50ºC – Indoor Environment
Dimensions	98mm x 73mm x 55mm
Weight	150gr
Compliance	CE

Crow Apps and Web Pages

Crow Pro Apps

Smartphone Apps for IOS and Android Users

Whether at home, at work, on a business trip, or on vacation, the CrowPro Alarm™ smart apps provide the easiest way to monitor and control your Shepherd™ Panel.

Control panel status (Arm, Disarm...)

Check latest events

See and Operate on active Outputs (Activate/Deactivate)

See and Operate Zones (Activate/Deactivate Bypass)

Take picture from connected Pircam(s)

View stored pictures and Share them (via mail, message...)

Access to Panel & Users Info

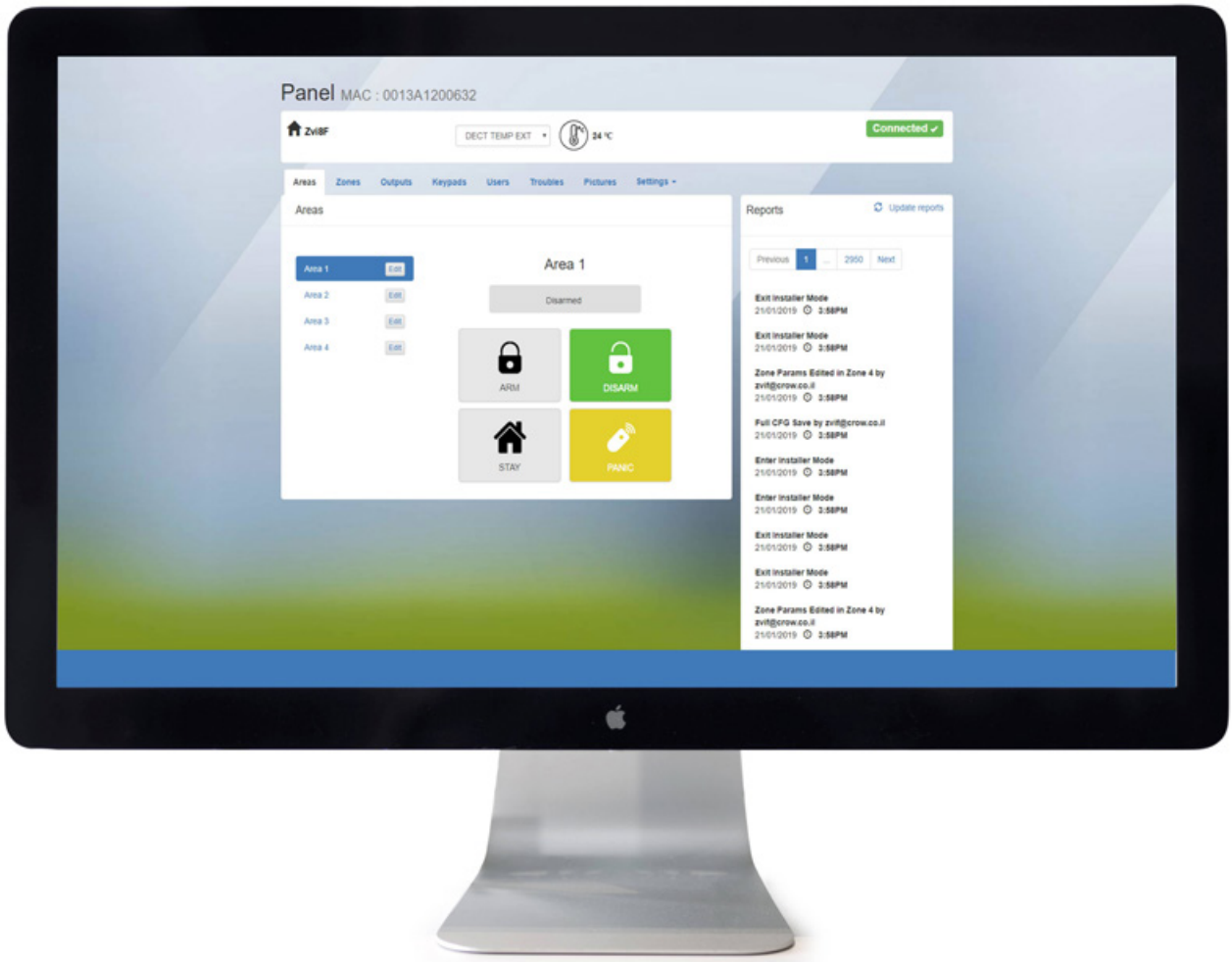
Switch between linked panels (home, office...)

Available on the App Store

GET IT ON Google Play

Personal Web Page

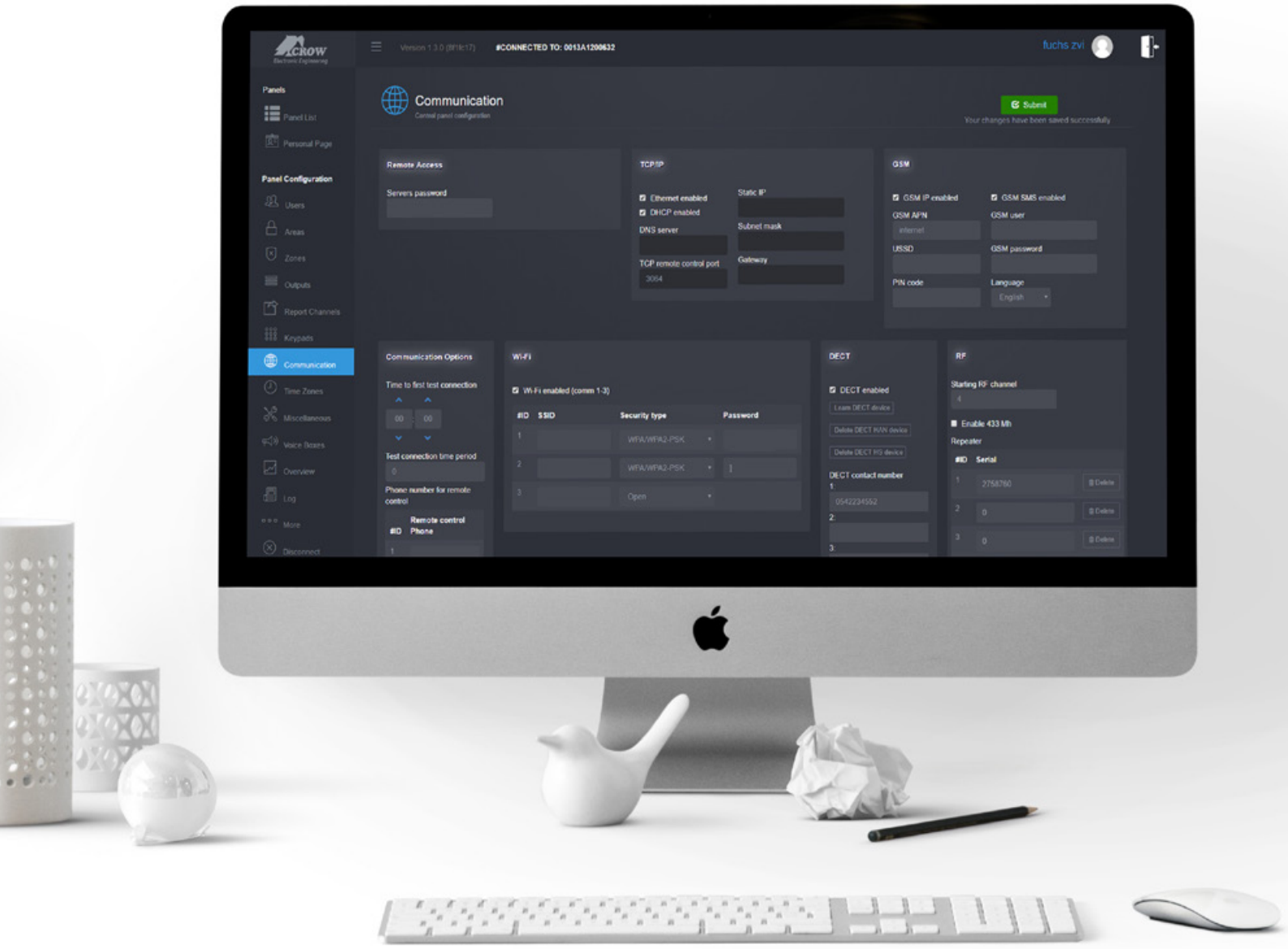
With Crow Personal Page™, you can also monitor and control the Shepherd™ panel through your PC via a web friendly personal web page.



Installer Web Page

Secure Web Access for Installers & Monitoring Centers

The Crowcloud™ Web Installer is a friendly interface which enables to configure, monitor, test and control Shepherd™ alarm panels, their communication and connected devices.



Video Verification

Indoor PIRCAM Detector

Outdoor PIRCAM Detector

Verification Camera

HD IP CAMERA

4K IP CAMERA with Face recognition and AI

SH-PIRCAM-IN

Wireless Indoor PIR & Camera Detectors

Crow's Indoor PIRCAMs are two-way wireless motion detectors with built-in CMOS high quality color cameras. They provide an ideal solution for video verification via pictures transmitted to a CMS or to your mobile phone via CrowPro Apps. Both users and CMS can verify alarms day and night by viewing real-time color images captured by Crow's PIRCAMs for fast and accurate response to real alarm events. They can be configured Over-The-Air.

	SH-PIRCAM
Detection Method	Quad Pyro Element Sensor & CMOS HDR Camera
Optics	Mirror Optics and Creep Zone
Communication Protocol	Freewave2™ two-way ISM GFSK with 5 freq. & LBT
Operating Frequencies	868MHz or 916MHz
Identification	Unique ID serial number – 24 bit
CAM Resolution	VGA or QVGA
CMOS Sensitivity	16VLux/sec
Picture Mode & Resolution	Configurable VGA / QVGA
Detection Range	12 m
Events Transmission	Alarm, Tamper, Supervision, Low Bat, Keep Alive
Supervision Time	7 min by default (configurable between 1 to 30 min)
Transmission Range	500m open space
Pet Immunity	Up to 25 kg
Battery	2 x Lithium batteries 1.5V AA Energizer L91
Battery Life	Up to 5 years
Current Consumption	Receive mode ~26 mA Transmit mode ~52 mA
Tamper Switch	Front Cover and Wall Removal
Operating Temperature	-10°C to +55°C
Dimensions/Weight	112mm x 58mm x 45mm / 120 gr.
Compliance	EN50131 Security Grade 2 Class II

FW2-PIRCAM-OUT

Wireless Outdoor PIR & Camera Detector

	FW2-PIRCAM-OUT
Detection Method / CAM Resolution	Quad PIR & CMOS Camera with VGA or QVGA
Communication Protocol	Freewave2™ Two Way ISM GFSK with 5 frequencies & LBT
Frequencies	868MHz or 916MHz
Identification	Unique ID serial number
Events Transmission	Alarm, Tamper, Supervision, Low Bat
Communication Range	500m open space
Detection Range	12 m
Pet Immunity	With Mask
Detection Mode Sensitivity (configurable)	“Take Picture” mode: ≥ 16 VLux/sec – Color Picture ≤ 16 VLux/sec – B&W Picture with IR LED “Alarm” mode: B&W or VGA/QVGA Color picture
Battery Life	Up to 7 years
Current Consumption	Average Current : 200uA
Battery	2 x 3.6V /13Ah Lithium ,D-Size (ER3415M)
Operation Temperature	-25ºC ~ +55 ºC
IP Rating	IP 65
Dimensions	135mm x 75mm x 70mm
Weight	400gr
Compliance	EN50131 Security Grade 2 Class II

SH-CAM

Verification Camera

Crow's SH-CAM is a two-way wireless CMOS camera for day and night high quality color pictures.

The SH-CAM can be tied to other Shepherd™ security or safety peripherals such as PIR, smoke or flood detectors or doorbells.

It can also be linked with Telecare Fall detectors for visual event verification.

It is battery operated and ideal for CMS, Telecare or by authorized users.

The SH-CAM like all any other Shepherd™ peripherals can be configured Over-The-Air.

	SH-CAM
Communication Protocol	Freewave2™ two-way ISM GFSK with 5 freq. & LBT
Camera sensor	VGA/QVGA, 16V lux/sec, field of view 90°
Battery	2 x Lithium batteries 1.5V AA
Night Vision	High–power White LED Day and Night high quality color pictures IR cut-off filter
Tamper protection	3 Axis MEMS accelerometer
Transmission Range	500m open space
Operating frequencies	868MHz or 916MHz
Operating Temperature	-10°C to +55°C Weather resistant
Sensors	Ambient light, Temperature, Accelerometer
Dimensions	60mm X 60mm x 45mm
Compliance	CE

Audio Verification

SH-AVM

Audio Verification Module

SH-AVM is an indoor audio verification module. Upon transmission of an alarm signal, the SH-AVM provides remotely controlled and full duplex functionality between a central station operator and the occupants of the premises. Receiving audio verification simultaneously with the alarm signal allows the CMS to prioritize and verify alarms before acting, making the SH-AVM the ideal solution to false dispatching and unverified alarm problems.

Up to 4 modules can easily be installed in any convenient location in your home.

Modulation Type	DECT ULE
Event Transmission	Emergency Voice Call, Low Bat, Keep Alive (every 7 minutes – configurable)
Activation Method	Push-Button for speed dial emergency call
Range	500m open space
Operating Voltage	5 Volts DC supplied from wall mount adaptor
Battery	Rechargeable Polymer 3.7V 1000mAh
Current Consumption	Talk Mode: 300mA Up to 3 hours talk time in battery mode Standby: 5mA Up to 1 week in battery mode
LED Indicators	Yellow: Hang Up Green: Pair Status OK Speed dial Red: Pairing/HW problem
Operating Temperature	0°C to +50°C
Dimensions	104mm x 104mm x 29mm
Weight	150gr
Compliance	CE, FCC Part 15, IC, ETL & ULE

Alarm Detection

Indoor PIR Motion Detectors

Outdoor PIR Motion Detector

Magnet & Shock Devices

Glass Break Detector

SH-PIR & SH-PIR-CRT

Mirror Optics Wireless PIR & Curtain PIR Detectors

SH-PIR is a fully supervised mirror optics two-way wireless detector featuring motion detection, tamper protection, low battery and supervision.

SH-CRT is a wireless detector featuring a solid curtain coverage of up to 8m length by 3m height.
SH-CRT may be used for perimeter protection by setting up detection “curtains” walls or windows.

SH-PIR & SH-CRT can be configured Over-The-Air.

	SH-PIR	**SH-PIR-CRT**
Detection Method	Quad Pyro Element Sensor	Quad Pyro Element Sensor
Communication Protocol	Freewave2™ two-way ISM GFSK with 5 frequencies & LBT	Freewave2™ two-way ISM GFSK with 5 frequencies & LBT
Operating Frequencies	868MHz or 916MHz	868MHz or 916MHZ
Identification	Unique ID serial number – 24 bit	Unique ID serial number – 24 bit
Events Transmission	Alarm, Tamper, Supervision, Low Bat, Keep Alive.	Alarm, Tamper, Supervision, Low Battery
Supervision Time	7 min by default (configurable between 1 to 30 min)	7 min by default (programmable between 1 to 30 min)
Communication Range	500m open space	500m open space
Battery	3V Lithium CR123A	3V Lithium CR123A
Battery life	Up to 5 Years	Up to 5 Years
Current Consumptions	Average Current : 15uA Transmit current: ~45mA	Average Current : 15uA Transmit current: ~45mA
Tamper Switch	Front Cover and Wall Removal	Front cover removal & Back tamper
Operating temperature	-10°C to +55°C	-10°C to +55°C
Dimensions/ Weight	112mm x 58mm x 45mm / 120 gr.	108mm x 58mm x 42.5mm / 120 gr.
Compliance	EN50131 Security Grade 2 Class II	EN50131 Security Grade 2 Class II

FW2-EDS3000 AM

Wireless Double PIR and Anti-Masking Outdoor Detector

FW2-EDS3000AM is a unique two-way wireless outdoor double motion detector with active Anti-Masking feature. This device is designed to protect the outdoor areas of your property and triggers an alarm before an intruder breaks in.

	FW2-EDS3000 AM
Detection Method	Two Double Pyro and Antimasking
Communication Protocol	Freewave2™ two-way ISM GFSK with 5 frequencies & LBT
Operating Frequencies	868MHz or 916MHz
Events Transmission	Alarm, Anti-Mask, Tamper, Supervision, Low Bat
Supervision Time	7 min by default (configurable between 1 to 30 minutes)
Communication Range	500m open space
Battery	4 x Lithium battery 1.5V AA Energizer L91
Battery Life	Up to 5 years
Current Consumption	Average 60uA
Tamper Switch	Front Cover and Wall Removal
Transmit Power	~ 14dBm
Temperature Compensation	Yes
LED Indicator	LED is ON during Alarm and Trouble
Operation Temperature	-25ºC ~ +55ºC
IP Rating	IP 65
Dimensions / Weight	200mm x 86mm x 80mm / 500gr.
Compliance	EN50131 Security Grade 3 Class III

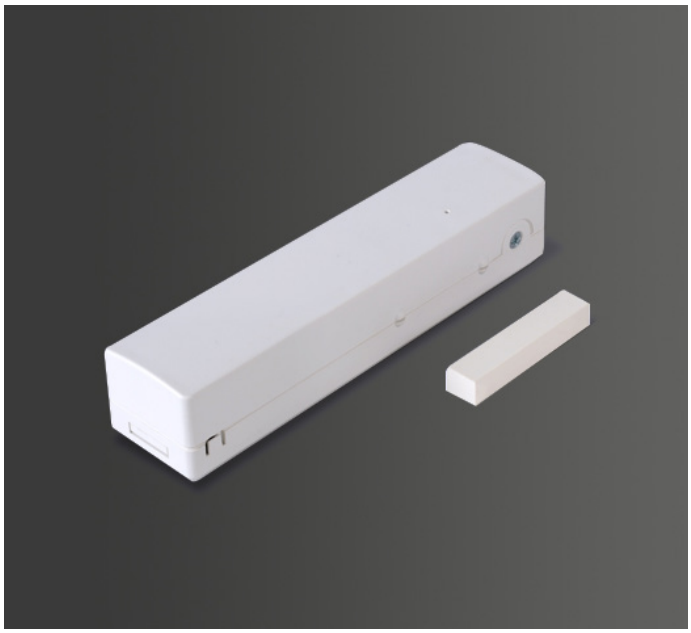
SH-MAG and SH-MAG & SHOCK

Wireless Door/Window Magnet Shock Contact Devices

These devices provide perimeter protection for premises with early warning upon attempted intrusion.

SH-MAG & SHOCK device analyzes shocks while ignoring background vibrations.

They can be configured Over-The-Air and feature a 5 year battery life.



	SH-MAG	SH-MAG & SHOCK
Detection Method	Magnetic Contact	Magnetic contact and Shock
Communication Protocol	Freewave2™ two-way ISM GFSK with 5 frequencies & LBT	Freewave2™ two-way ISM GFSK with 5 frequencies & LBT
Operating Frequencies	868MHz or 916MHz	868MHz or 916MHz
Identification	Unique ID serial number – 24 bit	Unique ID serial number – 24 bit
Events Transmission	Alarm, Tamper, Supervision, Low Bat, Keep Alive.	Alarm, Tamper, Supervision, Low Bat, Keep Alive.
Supervision Time	7 min by default (configurable between 1 to 30 min)	7 min by default (configurable between 1 to 30 min)
Transmission Current	55mA	55mA
Battery	2 Lithium batteries AAA 1.5V Type L92	1 Lithium batteries CR123
Battery Life	Up to 5 Years	Up to 5 Years
Current Consumption	Average: 6uA	Average: 9uA
Tamper Switches	Front Cover and Wall	Front Cover and Wall
Operating Temperature	-10°C to +55°C	-10°C to +55°C
Dimensions / Weight	100mm x 26mm x 16mm / 50gr.	98mm x 21mm x 22mm / 50gr.
Compliance	EN50131 Security Grade 2 Class II	EN50131 Security Grade 2 Class II

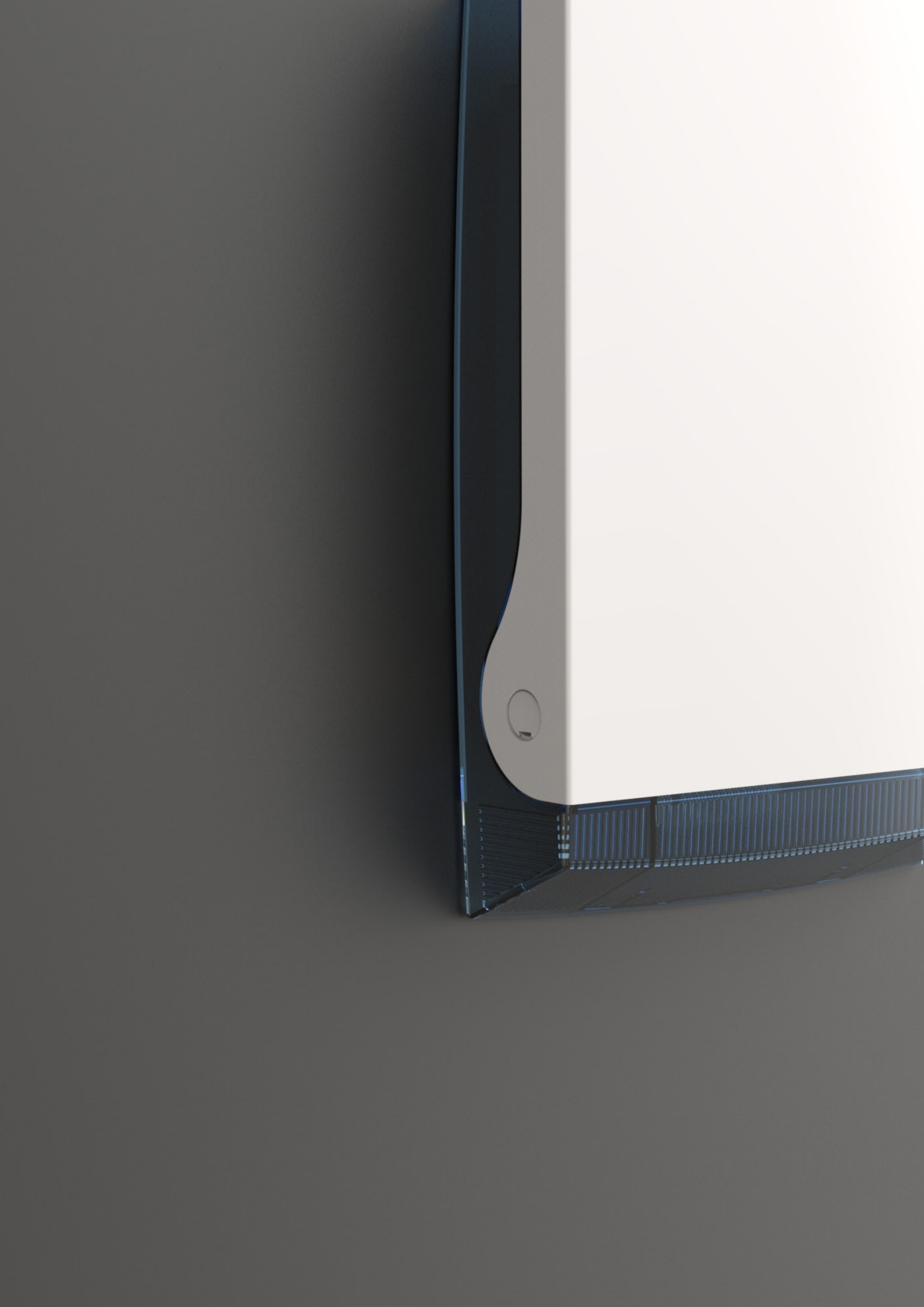
SH-GBD

Wireless Glass Break Detector

SH-GBD is an Omni-directional Wireless Glass Break Detector providing a detection coverage of 180°.

It can be configured Over-The-Air.

	SH-GBD
Detection Method	Omni-directional Shock & Glass Break
Communication Protocol	Freewave2™ two-way ISM GFSK with 5 frequencies & LBT
Frequency	868MHz or 916MHz
Identification	Unique ID serial number – 24 bit
Events Transmission	Alarm, Tamper, Supervision, Low Bat.
Supervision Time	7 min by default (configurable)
Range in Open Space	500m
Coverage Area	Up to 6m - 180º radius
Battery	2 x Lithium batteries 1.5V AA Energizer L91
Battery Life	Up to 10 years
Current Consumption	Average 12uA
Transmission Current	~55mA
Tamper Switch	Back Tamper (Removal)
Operating Temperature	-10°C to +55°C
Dimensions / Weight	63mm x 63mm x 19.60mm / 120 gr.
Compliance	EN50131 Security Grade 2 Class II



Signalling Devices

Indoor Sounder

Outdoor Sounder

SH-SIRINT

Wireless Indoor Sounder

SH-SIRINT is a fully supervised wireless siren. Its slim and compact design blends into the decor and provides an alert to a potential danger. It also indicates entry and exit delays, trouble beeps and door chimes.

SH-SIRINT can be configured Over-The-Air.

	SH-SIRINT
Communication Protocol	Freewave2™ two-way ISM GFSK with 5 frequencies & LBT
Operating Frequencies	868MHz or 916MHz
Identification	Unique ID serial number – 24 bit
Events Transmission	Alarm, Tamper, Supervision, Low Bat.
Supervision Time	7 min by default
Transmission Range	500m open space
Alert Method	Internal Piezo and LED
Sound Level	85dB at 1 meter
Flash Light	White LED
Battery	2 x Lithium battery 1.5V AA Energizer L91
Battery Life	Up to 5 years
Current Consumption	Average Current : ~60uA Max Current: Alarm 750mA
Tamper Switch	Bracket Removal
Operating Temperature	-10°C to +55°C
Dimensions / Weight	93 mm x 93mm x 26mm / 80gr.
Compliance	EN50131 Security Grade 2 Class II

FW2-NEPTUNE

Wireless Outdoor Sounder

FW2-Neptune is a wireless two-way self-powered outdoor siren. It features fully supervised communication highly reliable operation and optimal wireless performance, including visual and audio notifications.

FW2-Neptune can be configured Over-The-Air.

	FW2-NEPTUNE
Communication Protocol	Freewave2™ two-way ISM GFSK with 5 frequencies & LBT
Frequency Band	868MHz or 916MHZ
Identification	Unique ID serial number – 24 bit
Range	500m open space
Sound Pressure Level	105dB
Siren Tone	yelp
Frequency Range	2700 ± 500 Hz
Indications	Flash LED during transmission (Arm/Disarm) and Activation
Flash Light	Power LED (90 Lumens)
Current Consumption	Standby Average: 110uA, External power 9-12 VDC standby 3mA, Alarm 0.83A
Power Supply	9V-15V / 2A
Siren Alarm Period	2 min/15 min (programmable)
Arm/Disarm Indication	LED Flash : Arm-1 Disarm-3 LED Flash with Beeps : Arm-1 Disarm-3
Supervision	Sync signal every 1 min
Tamper Switch	Normally Closed
Battery	Battery pack Lithium 3.6V / 13Ah
Battery Life	Up to 5 years
Low Battery Level / Indication	3.1V / LED Flash @ Arm/Disarm
LED Indicator	LED is ON during ALARM and TROUBLE
Operation Temp	-40°C to +70°C
IP Rating	IP 55
Dimensions / Weight	310 mm x 205 mm x 75 mm / 1.2 Kg (Without Battery)
Compliance	EN50131 Grade 2 Class IV

DE FUMÉE ET MONOXYDE DE CARBONE - SMOKE AND CARBON MONOXIDE ALA

Safety Devices

Smoke Detectors

Flood Detector

Air Quality Sensor

Temperature Sensor

Humidity, Temperature & Air Pressure Device

FW2-SMK & SH-SMK

Wireless Smoke Detectors

Crow's Smoke detectors are built with an advanced optical sensing photoelectric chamber and offer 10 years of battery life.

FW2-SMK & SH-SMK are cutting edge in fire safety. They sound an on-board siren, communicate through apps, and deliver alerts to your phone or other mobile device if an alarm occurs.

	FW2-SMK	SH-SMK
Detection Method	Photoelectric Smoke Detector	Photoelectric Smoke Detector
Communication Protocol	Freewave2™ two-way ISM GFSK with 5 frequencies & LBT	Freewave2™ two-way ISM GFSK with 5 frequencies & LBT
Frequency Band	868MHz or 916MHz	868MHz or 916MHz
Identification	Unique ID serial number – 24 bit	Unique ID serial number – 24 bit
Event Transmission	Alarm, Tamper, Supervision, Low Bat Supervision	Alarm, Tamper, Supervision, Low Bat Supervision
LED Indications	LED during alarm	LED during alarm
Tamper Switch	Bracket Removal	Bracket Removal
Communication Range	500m in open space	500m in open space
Detection Sensitivity	2.3+1.2%/ft	2.3+1.2%/ft
Alarm Sound Level	85 dB at 3 m Audible Warning Built-in horn	85 dB at 3 m Audible Warning Built-in horn
Battery	Battery pack Lithium 3V/3500mAh	2x Lithium battery 1.5V AA Energizer L91
Battery Life	10 years	10 years
Current Consumption	Average : 15uA	Average : 15uA
Operating Temperature	-10ºC to +55ºC	-10ºC to +55ºC
Dimensions / Weight	125mm x 38mm / 235gr	124mm x 124 mm x 35mm / 235gr
Compliance	EN14604	EN14604

SH-FLOOD

Wireless Flood Detector

SH-FLOOD is a two way wireless Flood Detector designed to detect water leaks in kitchens, bathrooms warehouses or yachts. Installation is easy and provides an early warning of developing leaks.

	SH-FLOOD
Detection Method	External golden contacts pins device
Communication Protocol	Freewave2™ two-way ISM GFSK with 5 frequencies & LBT
Frequency Band	868MHz or 916MHz
Identification	Unique ID serial number – 24 bit
Event Transmission	Alarm, Tamper, Supervision, Low Batt Supervision
LED Indications	Red LED during alarm
Tamper Switch	Front Cover Removal
Supervision Time	7 min by default (programmable between 1 to 30 min)
Communication Range	500m open space
Current Consumption	Average: 7uA
Transmission Current	55mA
Battery	2x Lithium battery 1.5V AA Energizer L91
Battery Life	Up to 5 years
Operating Temperature	-10°C to +55°C
Dimensions / Weight	63mm x 23.3m x 63mm / 100 gr
Compliance	CE

SH-AQ

Air Quality Sensor

SH-AQ enables you to take control of home air quality.

Indoor air quality is affected by smoke and volatile organic chemicals (VOCs).

Home building materials and furniture may also release these VOCs.

In the process of trying to secure your home by locking doors and keeping the windows shut you may inadvertently seal in carbon dioxide. Furnaces and other wood-fueled heaters also produce carbon monoxide while high humidity contributes to poor air quality.

	SH-AQ
Operation Method	Air Quality Sensor
Communication Protocol	Freewave2™ two-way ISM GFSK with 5 frequencies & LBT
Frequency Band	868MHz or 916MHz
Identification	Unique ID serial number – 24 bit
Events Transmission	Air Quality Alert, Tamper protection, Low Battery
Supervision Time	7 min by default (configurable)
Tamper Switch	Front cover removal & Back tamper
Range	500m open space
Battery	2x Lithium battery 1.5V AA Energizer L91
Battery Life	up to 3 Years
Current Consumption	Average 110uA
Transmission Current	~55mA
Operating Temperature	-10°C to +55°C – Accuracy ±1°C
Relative Humidity Range	0 to 100% - Accuracy ±9 % RH (±2 % Hysteresis)
Pressure Range	300 - 1100 hPa – Accuracy ±1.0 hPa
Dimensions / Weight	63 mm x 63 mm x 19.60 mm / 40 gr.
Compliance	CE

SH-TEMP-XT

ISM Temperature Sensor

The SH-TEMP-PRB-XT is an advanced temperature sensor with integrated RF transceiver designed to be a fully supervised low-current device.

The SH-TEMP-PRB-XT is a part of the FREEWAVE2 devices that uses an advanced 2way RF transceiver combined with an intelligent communication protocol. Temperature over the external sensor by using unique cord with NTC connected to the external input (e.g. measur freezer internal temperature). Temperature measurements are transmitted to the control panel.

Each SH-TEMP-PRB-XT has a unique factory set ID code (24bit) which by registration is set into memory of the paired FREEWAVE2 TRANSCEIVER, enabling more secured communication and devices be remotely controlled from a specific transceiver.

	Temperature Sensor
Detection Method ISM Radio	External Wired Probe Sensor
Operating Frequencies	868-869MHz / 916-917MHz
Identification	Unique ID serial number – 24 bit
Events Transmission	Alarm, Tamper, Supervision, Low Bat, Keep Alive.
Supervision Time	1 min preprogrammed (not configurable)
Transmission Range	500m in open space
Battery	3V Type CR123A Lithium
Battery life	Up to 5 years
Current Consumptions	Standby ~20 mA Receive mode ~55 mA Transmit mode ~16 mA Low Bat 2.5V Cut Off 2.2V
Tamper Switch	Front Cover and Wall Removal
Operating temperature	-10°C to +55°C
Probe Temperature Measurement	-40°C to +105°C
Dimensions	97mm x 22mm x 21mm
Weight (incl. battery)	100 gr.

Home Comfort

Smart Plug

SH-ACP

Wireless Smart Plug

SH-ACP can be easily plugged into a socket to control any appliance manually or remotely via Crow's Apps.

	SH-ACP
Operation Method	Relay Switch OPEN / CLOSE
Communication Protocol	Freewave2™ two-way ISM GFSK with 5 frequencies & LBT
Frequency	868MHz or 916MHz
Identification	Unique ID serial number – 24 bit
Events Transmission	ON/OFF Status, Supervision
Supervision Time	7 min by default (configurable between 1 to 30 minutes)
Communication Range	150m in open space
Power Supply	Powered directly from the mains
Max Switched Power	3200W
Current Consumption	Standby Current: 30mA from mains
Operating Temp	-10°C to +55°C
Dimensions / Weight	100mm x 50mm x 75mm / 100 gr.
Compliance	CE
Standard	Europe Type E

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specifications are subject to change without prior notice