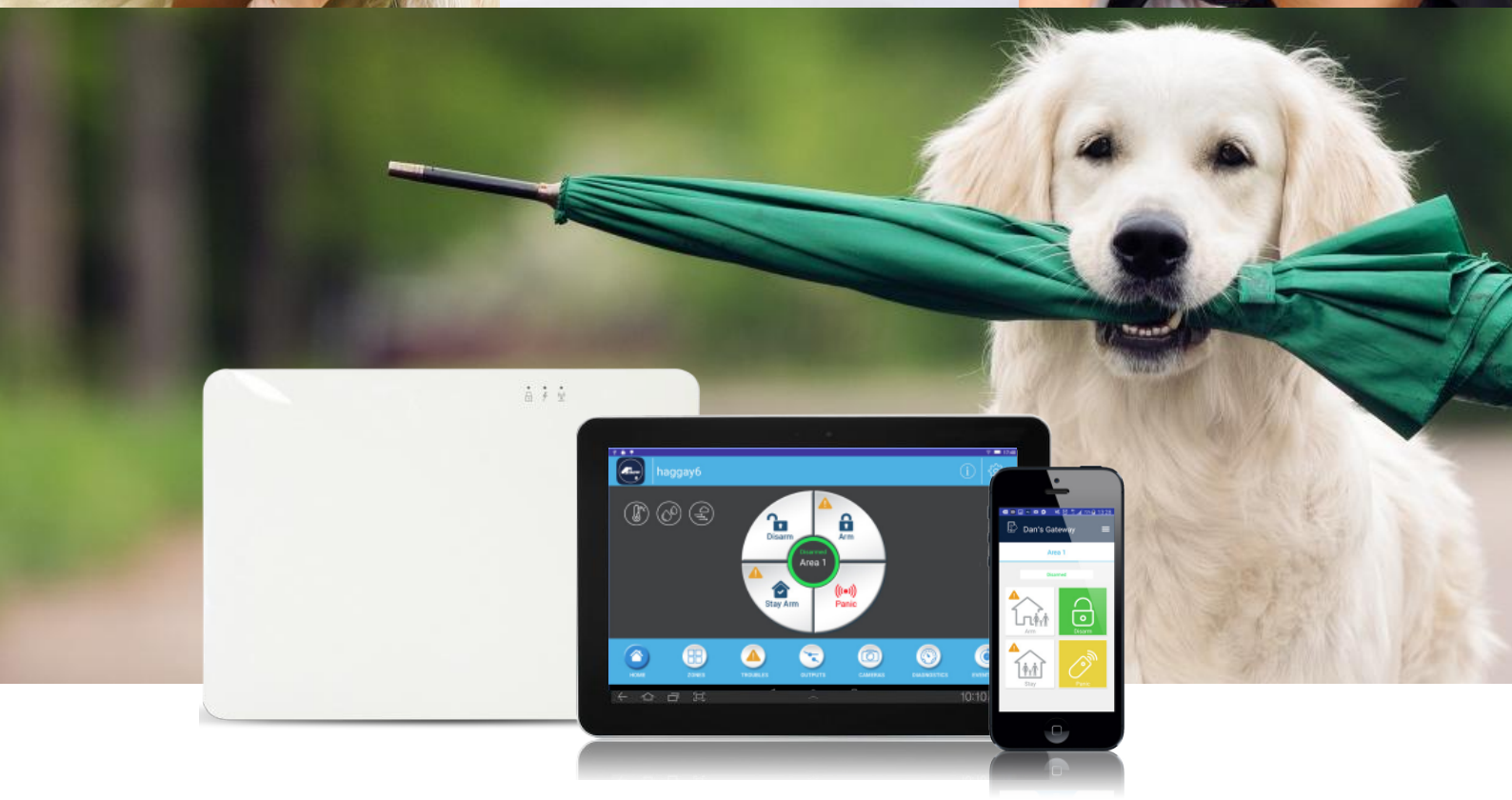
SHEPHERD™

Smart solutions to protect and manage what matters the most to you



The Crow Group

www.thecrowgroup.com

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Shepherd Eco System

Control Panel

The Shepherd is Crow's new generation of Security and Safety panel and devices. The Shepherd eco system offers the highest standard of reliability in data transmission via its multiple communication paths, two way ISM and Dect devices and advanced Cloud.

- Green Eco system with peripherals life time operation up to 10 years without battery replacement
- SUOTA "Software Over for the Air" for easy Remote configuration, upgrade and testing of wireless equipment
- Advanced diagnostic tools for optimal installation and configuration
- Smart and wide Portfolio for Security, Safety, Comfort, Energy Management
- Long range of wireless communication
- Outstanding Crow Cloud and Smart Shepherd Apps
- Compliance with RE directive (RED):2014/53/EU and EN50131 European standard Grade 2
- Operation in a harmonized 868 MHz & 916 Mhz bands

The gateway and its peripherals are very easy to install and configure Via web site or via Shepherd APP. Learning a device is done by simply entering its serial number provided on a label or scanning the barcode and inserting a battery or …tamper? The Shepherd gateway will instantly recognizes the device with its default settings and allow to change them as per the installation requirements and needs.

Status and diagnostic such as communication quality, battery level, RSSI,… s as well as updates, changes and upgrades can also be performed Via web site or via Shepherd APP.

Peripherals Architecture

SHEPHED™ Panel

CrowCloud™ Smart Applications

Keypad

Mobile Phone App

Tablet App

Intrusion Detectors

Indoor PIR Motion Detector

Outdoor PIR Motion Detector

Indoor PIR Curtain Motion Detector

Glass Break

Door / Window Magnet / Shock Contact

Visual Verification

Indoor PIR & Camera Motion Detector

Outdoor PIR & Camera Motion Detector

Audio Module

Emergency Voice Module

Sounders

Outdoor Sounder

Indoor Sounder

Safety Detectors

Smoke Detectors

Flood Detector

Home Comfort

Smart AC Plug

Air Quality Sensor

Humidity & Temperature Sensor

Elderly Care

Panic Watch

Audio Panic Button

2. SECURITY Devices

- Keypad
- PIR Detectors
- Magnet & Shock
- Glass Break
- PIR CAM Detectors
- Voice Module
- Sounders

SH-KP

Wireless LED keypad for SHEPHERD™ panel with built-in proximity reader and internal sounder

SH-KP is The Shepherd's two-way wireless LED keypad.
It enables easy arming and disarming as well as emergency, fire and panic alarms.
It can be wall-mounted or used as a portable device. When wall-mounted, it provides back-tamper protection and supervision alerts.
SH-KP features extended communication range and battery life

- Easy and user-friendly control of the security system
- Integrated panic function
- Ergonomic design for handheld use or wall mounting
- 5 years battery life

SPECIFICATION

Detection Method	Numerical Keypad & RFID
Communication Protocol	Freewave2™ Two Way ISM GFSK with 5 frequencies & LBT
Frequency Band	868-869MHz or 916-917MHZ
Identification	Unique ID serial number – 24 bit
RFID	ISO 15693
Functions	Arm, Disarm, Zone Bypass, Panic Alarm, Chime Local Programming mode (users/tags)
Communication Range	500 m in open space
Current Consumptions	Standby: 4μA Transmission ~28 mA Average: 10mA
Battery	3 x Lithium batteries / Size CR123
Battery Life	Up to 5 years
Operating Temperature	-10°C to +55°C
Dimensions	152mm x 87mm x 28mm
Weight (Inc. battery)	200 gr
Compliance	EN50130-4 EN50130-5 EN50131 Security Grade 2, Environmental Class II

SH-PIR & SH-PIR-CRT

Mirror optics based wireless PIR & curtain PIR detectors

The SH-PIR is fully a supervised mirror optics Two-Way wireless PIR detector.
It features full communication including Supervision, Tamper, Low Battery as well as test transmission signals (Communication, Tamper, Alarm). The SH-PIR can be configured Over-The-Air.

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

SH-PIR

SH-PIR-CRT

SPECIFICATION

	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	868-869MHz or 916-917MHz	868-869MHz or 916-917MHZ
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)
Transmission Range	500m in open space	500 m in open space
Battery	3V Type CR123A Lithium	Lithium 3V battery type CR123 / Size 2/3AA
Battery life	Up to 5 years	Up to 5 years
Current Consumptions	Standby ~11µA Receive mode ~24 mA Transmit mode ~45 mA Transmit power ~14dBm Low Bat 2.8V Cut Off 2.6V	Standby ~7 A Receive mode ~29 mA Transmit mode ~38 mA
Tamper Switch	Front Cover and Wall Removal	Front cover removal & Back tamper
Operating temperature	-10°C to +55°C	-10°C to +50°C
Dimensions	112mm x 58mm x 45mm	108mm x 58mm x 42.5mm
Weight (incl. battery)	120 gr.	120 gr
Compliance	EN50130-4 EN50130-5 EN50131 Security Grade 2, Environmental Class II	EN50130-4 EN50130-5 EN50131 Security Grade 2, Environmental Class II

FW2-EDS-3000 AM

Wireless Double PIR and Anti-Masking Outdoor Detector

- Dual Quad Element Pyro sensor
- Anti-Masking
- Coverage detection pattern of 90° adjustable within 180°
- Heavy duty polycarbonate housing
- Sealed electronics and optics
- Automatic temperature compensation
- User selectable sensitivity levels
- Superior filtering against sun and white light
- Up to 55 kg Pet immunity
- IP55 rated

SPECIFICATION

Detection Method	Double PIR
WA Detection Pattern	90° with 30 zones detection
Data Protocol	Freewave2™ Two Way Protocol
Modulation Type	GFSK
Frequency Band	868-869MHz / 916-917MHz
Identification	Unique ID serial number – 24 bit
Event Transmission	Alarm, Tamper, Supervision, Low Battery
Detection Range	Configurable from 3m to 12m
Warm up Period	30 Sec (±0.5sec)
LED Indications	Red LED during pairing, alarm and transmission
Range in open space	500 m
Tamper Switch	Front cover removal & Back tamper
Supervision Time	7 min by default (programmable between 1 to 30 min)
Optimal installation height	1.2m
Current Draw	Standby: ~11µA Receive: ~24mA Transmit: ~45mA
Transmit power	~ 14dBm
Weatherproofing	All openings with gasket and sealed Protection against water and dust
Operating voltage	4 batteries 1.5V type AA
Battery Life	Up to 5 years
Operating Temperature	-25°C to +55°C
Dimensions	200mm x 86mm x 80mm
Weight (inc. battery)	500 gr

SH-MAG & Shock

Wireless Door/Window Magnetic Shock Contact

The SH-MAG is an advanced magnetic contact device with an integrated RF transceiver designed to be a fully supervised low-current device.
The SH-MAG can be configured Over-The-Air.

Sensitivity of the vibration sensor is configured remotely by using the EASY SHEPHERD s/w or the Shepheard app . Using the two built-in reed switches provides an option to choose the method of installation: the magnet interacting with the sensor can be placed either under or beside the detector, depending on the needs. The detector has a tamper switch and a test mode LED indicator.

- Internal Reed Switch
- Coverage 500m in open space
- Powered by 2 Lithium batteries AAA 1.5V
- Battery life more than 5 years
- Configurable over-the-air
- Tamper Switch: Front cover removal
- Multicolor LED indications

SPECIFICATION

Detection Method	Magnetic Field Sensor
Communication Protocol	Freewave2™ Two Way ISM GFSK with 5 frequencies & LBT
Operating Frequencies	868-869MHz or 916-917MHz
Identification	Unique ID serial number – 24 bit
Events Transmission	Alarm, Tamper, Supervision, Low Bat, Keep Alive.
Supervision Time	7 min by default (configurable between 1 to 30 min)
Transmission Range	500m in open space
Battery	2 Lithium batteries AAA 1.5V Type L92
Battery life	Up to 5 years
Current Consumptions	Standby ~5 μA Receive mode ~24 mA Transmit mode ~50 mA Transmit power ~12dBm Low Bat 3V Cut Off 2.7V
Tamper Switch	Front Cover Removal
Operating temperature	-10°C to +55°C
Dimensions	100mm x 26mm x 16mm
Weight (incl. battery)	50gr.
Compliance	EN50130-4 EN50130-5 EN50131 Security Grade 2, Environmental Class II

SH-GBD

Wireless Glass Break Detector

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

It can be configured Over-The-Air.

- 2 Way Wireless communication
- ISM Radio 2GFSK
- Frequency Band: 868MHz, 915MHz
- Low current Technology
- Powered by 2 Lithium batteries 1.5 Volt
- Battery life : up to 4 years
- Back Tamper (removal protection)
- Supervision transmission
- Battery status signal transmission
- Unique ID number (24 bits)
- Configurable over-the-air

SPECIFICATION

Detection Method	Omni-directional Shock & Glass Break
Communication Protocol	Freewave2™ Two Way ISM GFSK with 5 frequencies & LBT
Frequency	868-869MHz or 916-917MHz
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 - 180° radius
Battery	2 Batteries Lithium 1.5V, model LR6 Size: AA
Battery life	Up to 5 years
Current Consumptions	Standby ~13 µA Receive mode ~24 mA Transmit mode ~50 mA Transmit power ~13 dBm
Tamper Switch	Back Tamper (Removal)
Operating temperature	-10°C to +55°C
Dimensions	85mm x 54mm x 21mm
Weight (inc. battery)	120 gr.
Compliance	EN 50130-4 EN 50131-2-7-1 EN 50131-5-3 EN 50131-1 Security Grade 2, Environmental Class II

SH-PIRCAM INDOOR

Wireless Indoor PIR & Camera Detector

The SH-PIRCAM Indoor is a two way wireless motion detector with a built-in CMOS high quality color camera that provides the perfect solution for visual alarm verification of your premises.

When your control panel is armed and the PIR sensor detects a movement, the detector sends an alert and transmit picture to the CMS or to your mobile phone (via CrowCloud™).

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

- Quad element Motion Detector ASIC based
- CMOS with VGA resolution
- Coverage up to 12m
- Pet Immunity up to 25kgs
- Configurable over-the-air by the Base Station
- Tamper Switch: Front cover and back tamper

SPECIFICATION

Detection Method	Quad Pyro Element Sensor
Communication Protocol	Freewave2™ Two Way ISM GFSK with 5 frequencies & LBT
Operating Frequencies	868-869MHz or 916-917MHz
Identification	Unique ID serial number – 24 bit
Camera	CMOS Camera HDR
Resolution	VGA 640x480 or WGVA 744x520
CMOS Sensitivity	16VLux/sec
Picture Mode	Configurable BW / QVGA
Resolution	Configurable VGA / QVGA
Events Transmission	Alarm, Tamper, Supervision, Low Bat, Keep Alive
Supervision Time	7 min by default (configurable between 1 to 30 min)
Transmission Range	500m in open space
Pet Immunity	Up to 25 kg
Battery	2 Lithium batteries 1.5V, Size AA
Battery life	Up to 5 years
Current Consumptions	Standby ~70μA Receive mode ~26 mA Transmit mode ~52 mA Low Bat 2.9V Cut Off 2.6V
Tamper Switch	Front Cover and Wall Removal
Operating temperature	-10°C to +55°C
Dimensions	112mm x 58mm x 45mm
Weight (incl. battery)	120 gr.

FW2-PIR CAM OUTDOOR

Wireless Outdoor PIR & Camera Detector

The SH-PIRCAM-OUT allows visual verification by alarm or on-demand for owners and CMS. It can be configured Over-The-Air.

The SH-PIRCAM-OUT is a two-way wireless outdoor motion detector with a built-in CMOS high quality color camera and an advanced VMD technology for reliable external visual verification.

SPECIFICATION

Detection Method	Quad Element PIR & CMOS Camera for visual verification
Communication Protocol	Freewave2™ Two Way ISM GFSK with 5 frequencies & LBT
Frequencies	868-869MHz or 916-917MHZ
Identification	Unique ID serial number
Events Transmission	Alarm, Tamper, Supervision, Low Bat
Range in open space	500m
Camera	CMOS camera with VGA or QVGA resolution
Picture Range	12m
Picture 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 expectancy	Up to 3 years
Current Consumptions	Receive mode – 24mA Transmit mode – 38mA
Battery	Two 3V Lithium battery D Size
Operation Temp	-25°C ~ +55 °C
IP Rating	IP 65
Dimensions	135mm x 75mm x 70mm
Weight	400gr
Compliance	CE

SH-VM

Emergency Panic Button with Audio Voice Call

- High Quality 2 way audio
- DECT ULE RF protocol
- Low current Technology
- Do-It-Yourself Friendly Pairing and Installation
- Software Update Over-The-Air
- Keep Alive transmission
- Battery Status Check on Every Transmission

SPECIFICATION

Modulation Type	DECT Standard Bands
Event Transmission	Emergency Voice Call, Low Bat, Keep Alive (every 7 minutes – configurable)
Activation Method	Push-Button for speed dial emergency call
Range	500 meters (Open Space)
Operating voltage	5 Volts DC supplied from wall mount adaptor
Battery	Rechargeable Polymer 3.7V 1000mAh
Current Consumptions	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	-10°C – +50°C
Dimensions	104mm x 104mm x 29mm
Weight (incl. battery)	150 gr
Compliance	CE, FCC Part 15, IC, ETL & ULE

SH-SIRINT

Wireless Indoor Sounder

The SH-SIRINT is the ideal two way wireless indoor sounder for your premises particularly if outdoor sounders are prohibited.

Sound Level of the SH-SIRINT can be configured Over-The-Air.

SPECIFICATION

Communication Protocol	Freewave2™ Two Way ISM GFSK with 5 frequencies & LBT
Operating Frequencies	868-869MHz or 916-917MHz
Identification	Unique ID serial number – 24 bit
Events Transmission	Alarm, Tamper, Supervision, Low Bat.
Supervision Time	7 min by default
Transmission Range	500m in open space
Alert Method	Internal Piezo and LED
Sound Level	90dB at 1 meter
Flash Light	Red/Green and White LED indications
Battery	2 Lithium batteries 1.5V AA Type
Battery life	Up to 5 years Low Bat 2.9V Cut Off 2.5V
Current Consumptions	Standby ~60 µA Receive mode ~26 mA Transmit mode ~50 mA
Tamper Switch	Bracket Removal
Operating temperature	-10°C to +55°C
Dimensions	92.5mm x 26mm
Weight (incl. battery)	80gr.
Compliance	RED directive:2014/53/EU EN50130-4 EN50130-5 EN50131-4 Security Grade 2 Environmental Class II

FW2-Neptune

Wireless Outdoor Sounder

The SH-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 audial notifications.

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

SPECIFICATION

Communication Protocol	Freewave2™ Two Way ISM GFSK with 5 frequencies & LBT
Frequency Band	868-869MHz or 916-917MHZ
Identification	Unique ID serial number – 24 bit
Range in open space	500m
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: 110uA ±10uA@ Battery operation 20mA±2mA @12V DC operation Alarm: 950mA @ Battery Operation Max: 1.8A peak@ Battery operation Average: 200mA @ 12V DC operation Max: 1.2A peak @ 12V DC operation
Power Supply current limitation	Up to 1.8A
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
Power Supply Voltage	9V÷15V DC or Battery 3.6V /14Ah Lithium or both.
Battery Life	Up to 5 years (Based on 2 min Piezo operation/month)
Low Battery Level	2.8V
Low Battery Indication	LED Flash @ Arm/Disarm
Material	External Box: P.C. (3mm thick).
Case Protection Level	IP 55 - Plastic PC with UV protection. Conformal coated circuit board
Operating temperature range	-30°C to +70°C
Dimensions	310mm x 205mm x 75mm
Weight (Without Battery)	1.2 Kg
Compliance	EN50131 Grade 2, Environmental Class II

3. SAFETY DEVICES

Smoke Detector

FW-FLOOD

SH-SMK

Wireless Smoke Detector

The SH-SMK is a fully supervised wireless smoke detector compatible with Crow's two way wireless panels.

It is easy to install, features up to 10 years battery life.

- Wireless Smoke detector
- Available in 868Mhz or 916Mhz
- Powered by of 2 Lithium 3V, Size: AA
- Battery life more than 10 years

SPECIFICATION

Detection Method	Photoelectric Smoke Detector
Communication Protocol	Freewave2™ Two Way ISM GFSK with 5 frequencies & LBT
Frequency Band	868-869MHz or 916-917MHz
Identification	Unique ID serial number – 24 bit
Event Transmission	Alarm, Tamper, Supervision, Low Bat Supervision
LED Indications	LED during alarm
Tamper Switch	Bracket Removal
Communication Range	500m in open space
Detection Sensitivity	2.3+1.2%/ft
Alarm Sound Level	85 dB at 3 m Audible Warning Built-in horn beeps ones Test mode Or Alarm
EMI rejection	up to 2 GHz > 10 V/m
Battery	Lithium 2 batteries pack 3v/2900mah (L91)
Battery Life	Up to 10 years
Operating Temperature	-10ºC to +55ºC
Dimensions	124.3mm x 30mm
Weight (incl. battery)	200gr

SH-FLOOD

Wireless Flood Detector

TThe SH-Flood is an advanced leak detector with an integrated RF transceiver designed to be a fully supervised low-current device.

It features a built-in terminal connection for an external wired sensor.

- Wireless Flood detector
- Available in 868Mhz or 916Mhz
- Powered by of 2 Lithium 3V, Size: AA
- Battery life more than 10 years

SPECIFICATION

Detection Method	External golden contacts pins device
Communication Protocol	Freewave2™ Two Way ISM GFSK with 5 frequencies & LBT
Identification	Unique ID serial number – 24 bit
Event Transmission	Alarm, Tamper, Supervision, Low Bat Supervision
LED Indications	Red LED during alarm
Tamper Switch	Font Cover Removal
Supervision Time	7 min by default (programmable between 1 to 30 min)
Communication Range	space 500m in open space
Current Consumptions	Standby ~3 µA Receive mode ~29 mA Transmit mode ~38 mA
Battery	2 Lithium batteries 1.5V AA 2900mA
Battery Life	Up to 5 years
Operating Temperature	-10°C to +55°C
Dimensions	63mm x 23.3m x 63mm
Weight (Inc. battery)	100 gr
Compliance	CE

4. HOME COMFORT

Smart Plug

Air Quality

Humidity & Temperature

SH-ACP

Wireless AC plug for indoor use

The SH-ACP is easy-to-install and can be plugged into any socket to control any appliance rated less than 3200W manually or remotely via mobile application.

- FW2 protocol
- 2GFSK modulation type
- Frequency Band: 868.35MHz / 916MHz
- Supervision transmission.
- Color LED indications
- Range up to 150m on open space.

SPECIFICATION

Operation Method	Relay Switch OPEN / CLOSE
Communication Protocol	Freewave2™ Two Way ISM GFSK with 5 frequencies & LBT
Frequency	868-869MHz or 916-917MHz
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
Current Consumptions	Standby ~24ma@220VAC Receive mode ~25 mA Transmit mode ~45 mA
Operating Temp	-10°C to +55°C
Dimensions	100mm x 50mm x 75mm
Weight	100 gr.
Compliance	CE

SH-AQ

SH-AQ is a unique detector which combines barometric pressure, relative humidity, ambient temperature and air quality. It is small and user friendly making it easy to integrate to your Shepherd system.

Data is registered in Crow Cloud and user can monitor his ambient indoor air quality for his personal health and quality of life.

SH-AQ turns your smartphone into a portable indoor air quality monitor.

SPECIFICATION

DECT ULE HUM

DECT ULE Humidity, Temperature & Air Pressure Sensor

The DECT ULE HUM is a Do-It-Yourself fully supervised low-current Air monitor detector.

The DECT ULE HUM is part of the DECT ULE wireless line of devices embedding an advanced DECT ULE RF transceiver.

The DECT ULE HUM features include Humidity, Temperature & Air Pressure monitoring, and the results are displayed on an LCD as well as reported to the base station.

The DECT ULE HUM uses smart message control verifying all messages are successfully transmitted to the base station.

- DECT ULE RF protocol.
- Low current Technology.
- Do-It-Yourself Friendly Pairing and Installation processes.
- SW Update Over The Air.
- Keep Alive transmission.
- Battery Status Check on Every Transmission.
- Temperature Displayed in Celsius & Fahrenheit.
- Remotely configurable.
- A 35mm Diameter Display.

TECHNICAL SPECIFICATIONS

Modulation Type	DECT Standard
Frequency Band	All DECT Bands
Event Transmission	Alarm, Tamper, Low Bat, Keep Alive (every 7 minutes – configurable)
Detection Method	Humidity, Temperature & Air Pressure Sensor
Range	500 meters (Open Space)
Battery	Lithium. 3V Type: CR123A, Size: 2/3A
Battery life expectancy	Up to 4 years on regular use
Current Consumptions	Standby: 11µA ,Average: 26µA
Transmit power	Tx Power at +22dBm, typical and Rx Sensitivity at -97dBm, typical
LED Indicators	Red LED: ON – Pairing/HW problem Green LED: Pair Status OK
Operating Temperature	-10°C – +50°C (14°F– 122°F)
Dimensions	95mm x 50mm x 34mm
Weight (incl. battery)	T.B.D. gr
Part Numbers	0067400 – CR-DU-HUM-EURO 0067401 – CR-DU-HUM -USA 0067402 – CR-DU-HUM -JAPAN
Compliance	CE, FCC Part 15, IC, ETL & ULE

5. SECURE AND EASY ACCESS

CLOUD PLATFORM & SMART APP

The Crow Group

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