

Technical Data

Samcla >

> Infinite Remote Control



DESCRIPTION

Application

- In residential areas, apartment-buildings, parks or wherever remote control of the irrigation system is required

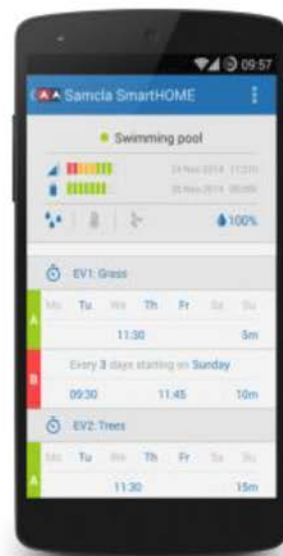
Specifics

- BLE (Bluetooth Low Energy) architecture for local management without WiFi connection and remote interface
- HUB architecture for creating a network of remotely manageable devices
- Communication of the single unit via BT in local mode or via radio in network mode
- Concentrator hub with communication via WiFi, Ethernet, 4G.
- Management via App for PC, tablet, smartphone
- Control of both DC and AC utilities
- Maximum covered distance 600 meters (repeaters 6 x 600 meters)
- Protection: IP 68

Features

- Plug & Play installation of devices
- Wide range of control and detection units
- Unlimited number of units that can be connected to a single Hub
- App available for Android and Apple
- Two-way communications
- Switching from BLE to HUB architecture possible at any time

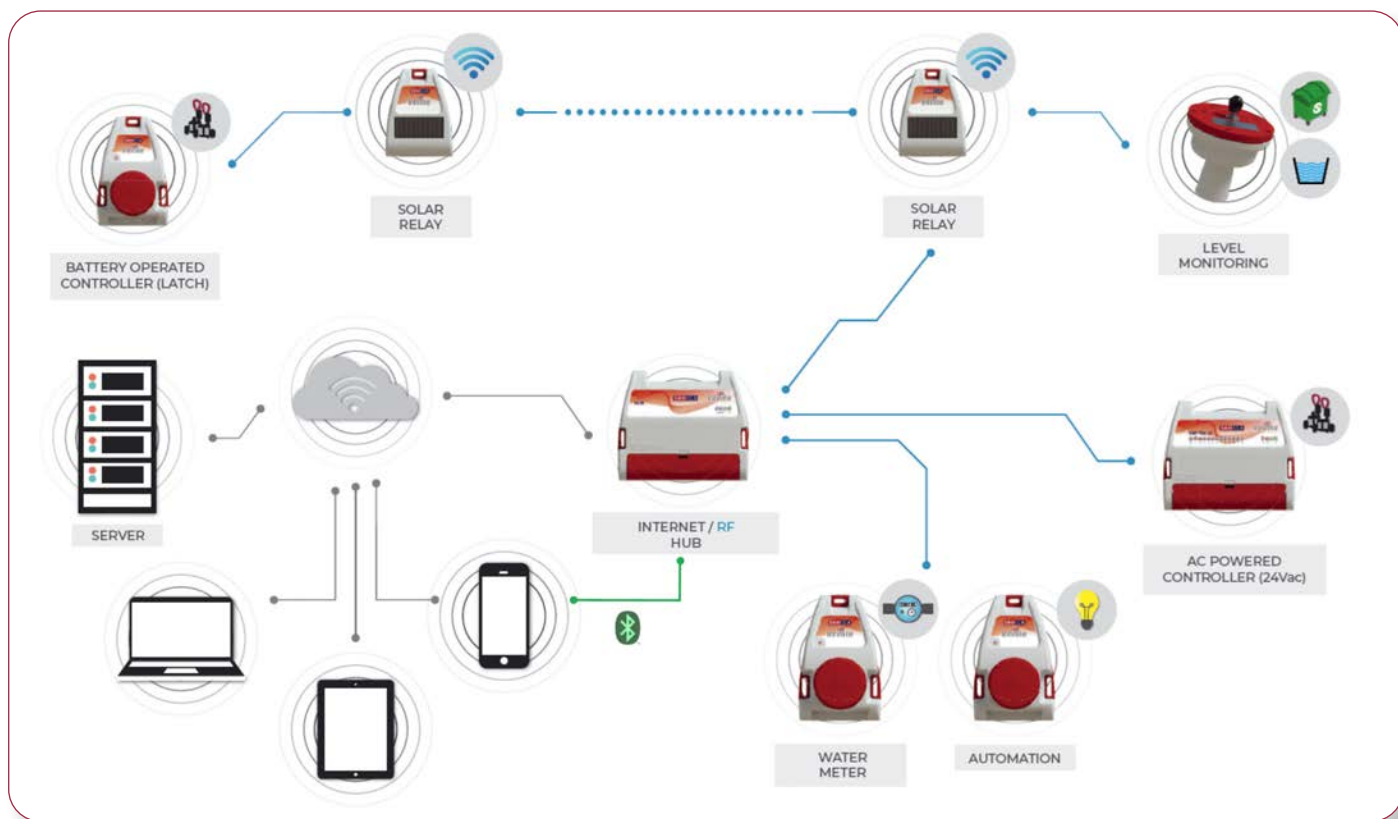
INFINITE BLE ARCHITECTURE



- Independent Bluetooth connection
- Infinite BLE APP specific
- No HUB nor REP
- Multi-user & Multi-device

- Protected devices
- No internet connection required - only for registered users and to add new devices
- Migration to an INFINITE HUB facility is allowed at any time

INFINITE HUB ARCHITECTURE



Operational structures

- Real-time operating system
- All communications protected
- Up to 6 relays per RF path - 100% RF coverage guaranteed
- RF range between relays: 1 km (open space)
- Unlimited number of devices per HUB, including sensors
- HUB internet connection: Wi-Fi, Ethernet (4G, OF, etc)
- Connection in local mode of the HUB: Bluetooth low energy
- AC powered and battery operated devices available
- 100% RF network operational in OFF LINE mode (Internet out of service)

> HUB Network



Code	HUB Model
OPG530	HUB no limited
OPG531	HUB lite 12 device
OPG532	Router 10 years

DESCRIPTION

- HUB for Network mode

- Power supply: 220V AC / 5V DC
- Degree of protection: IP2X
- RF coverage: 600m open field
- RF band: 868 MHz

Application

Specifics

- Ethernet: 10/100 Ethernet (RJ45)
- Wifi: 2,4 GHz/802,11 bgn
- Bluetooth: 4,1

Features

- Unlimited number of Samcla Infinite units that can be connected per HUB
- Unlimited number of connectable sensors per HUB
- Secure communication
- Internal clock regulated by the internet connection
- RF functionality guaranteed even in the absence of internet connection
- The sensors are automatically reloaded on the Samcla platform when the connection is restored

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> SBP unit Battery



Code	Outputs
OPG535	1 st 9 V DCL
OPG536	2 st 9 V DCL
OPG537	4 st 9 V DCL
OPG538	6 st 9 V DCL

DESCRIPTION

Application

- Stand-alone battery-powered SBP unit with Infinite BLE architecture or remote with HUB architecture

Specifics

- Control unit power supply: 3 V battery (2 x 1,5 AA)
- Degree of protection: IP68
- Local interrupt sensor (Infinite BLE only): dry contact
- RF coverage: 600m open field
- RF band: 868 MHz
- Bluetooth: 4,1
- Output command: 12 V DCL Bistable

Features

- User Programs: 8 (Infinite HUB only)
- Resident programs: 4
- Departure times per program: 6
- Maximum irrigation cycle duration: 23 h 30 min
- Maximum number of stations activated simultaneously: 4
- Local cut-off sensors: max 5 per station (Infinite HUB only)
- Water budget: 0% ÷ 200%
- On / off / pause mode
- Master valve

> SBP Unit 220 V AC



Code	Outputs
OPG540	4 st 24 V AC
OPG541	8 st 24 V AC
OPG542	12 st 24 V AC

DESCRIPTION

Application

- SBP 220 V AC stand alone unit with Infinite BLE architecture or remote with HUB architecture

Specifics

- Control unit power supply: battery 220/24 V AC (1A)
- Degree of protection: IP2X
- Local break sensor (Infinite BLE only): dry contact
- RF coverage: 600 m open field
- RF band: 868 MHz
- Bluetooth: 4,1
- Command output: 24 V AC

Features

- User Programs 8 (Infinite HUB only)
- Resident programs: 4
- Departure times per program: 6
- Maximum irrigation cycle duration: 23 h 30 min
- Maximum number of stations activated simultaneously: 4
- Local cut-off sensors: max 5 per station (Infinite HUB only)
- Water budget: 0% ÷ 200%
- On / off / pause mode
- Rechargeable backup battery
- Master valve

> REP Unit



Code	Description
OPG533	Repeater

DESCRIPTION

Application

- REP unit - solar repeater applicable in the HUB architecture

Specifics

- Control unit power supply: integrated solar panel
- Degree of protection: IP66
- RF coverage: 600 m open field
- RF band: 868 MHz

Features

- Up to 6 REP units can be placed in sequence between HUB and SBP units
- Unlimited SBP units per repeater REP
- Integrated antenna
- Two-way communication
- Ultra low sleep mode power consumption - this allows devices to be stored for a long time

> SBP Unit Level Ultrasound



DESCRIPTION

- SBD unit - ultrasonic level sensor

Application

Specifics

- Unit power supply: 3V (2 x 1.5 AA)
- Degree of protection: IP66
- Sensor: ultrasonic
- RF coverage: 600 m open field

- RF band: 868 MHz
- Max depth: 2,5 mt
- Resolution: 4 cm
- Non-reading area: 40 cm

Features

- Applicable for Infinite HUB only
- Integrated antenna

- Two-way communication
- Ultra low sleep mode power consumption - this allows devices to be stored for a long time

Code	Description
OPG544	Ultrasound sensor

> SBP Unit Command Relay



DESCRIPTION

- SBS unit - control relay unit applicable in the HUB Architecture

Application

Specifics

- Control unit power supply: integrated solar panel
- Degree of protection: IP66

- RF coverage: 600 m open field
- RF band: 868 MHz

Features

- 1 dry command contact
- Programmable recovery time
- Integrated antenna

- Two-way communication
- Ultra low sleep mode power consumption - this allows devices to be stored for a long time

Codice	Descrizione
OPG543	Command relay