

Technical Data

Samcla >

> Infinite Remote Control



DESCRIPTION

Application

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

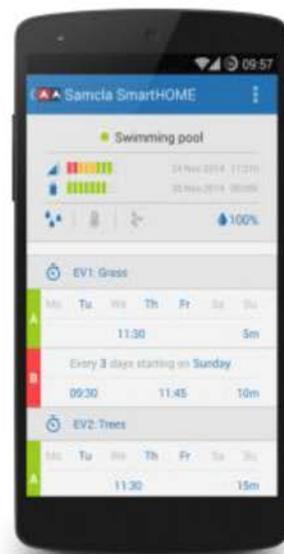
Specifics

- 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

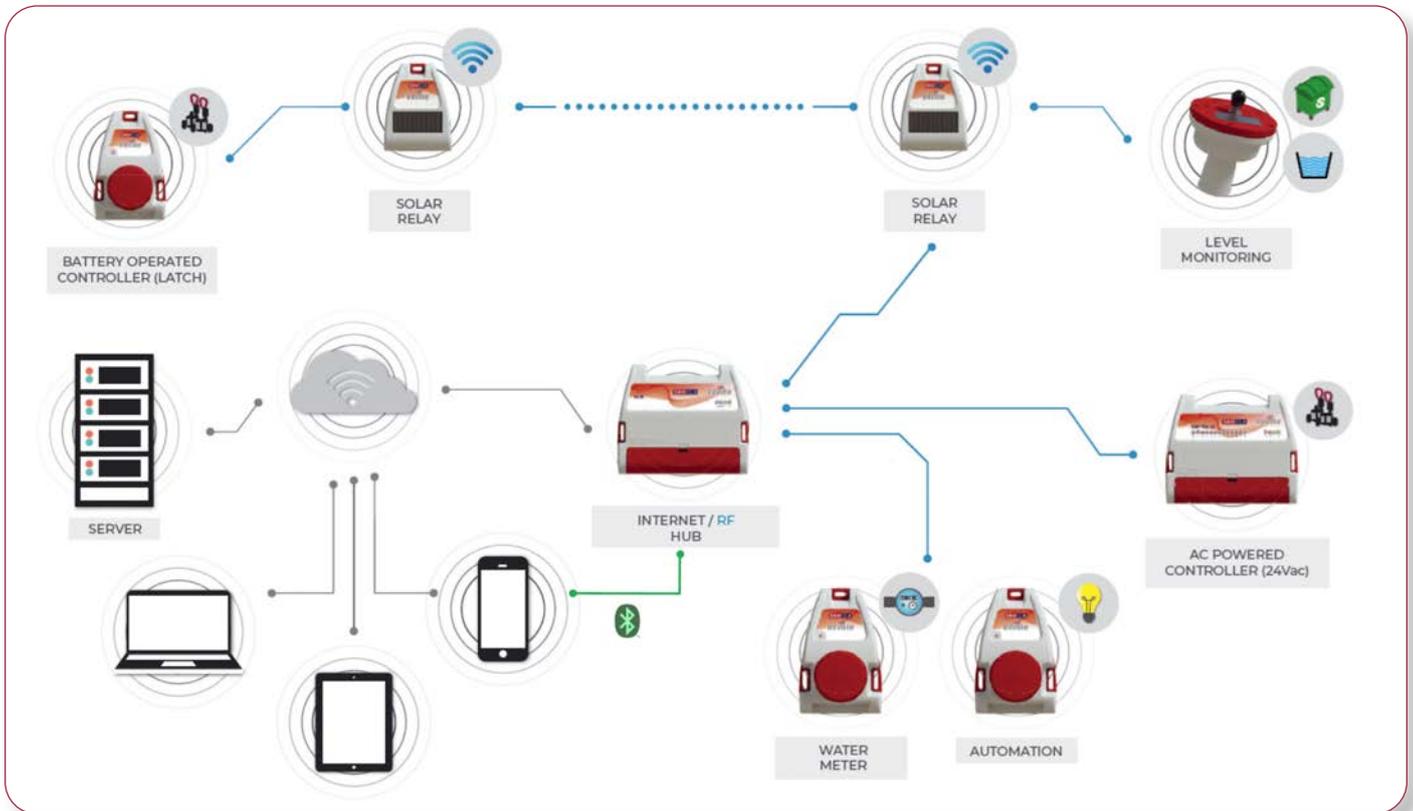
INFINITE BLE ARCHITECTURE



- 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

DESCRIPTION

Application

- HUB for Network mode

Specifics

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

- 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



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

Technical Data

Samcla >

> 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

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

Application

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

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

Application

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

- REP unit - solar repeater 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

- 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

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

- Applicable for Infinite HUB only
- Integrated antenna

Code	Description
OPG544	Ultrasound sensor

Application

Specifics

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

Features

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

> SBP Unit Command Relay



DESCRIPTION

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

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

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

Codice	Descrizione
OPG543	Command relay

Application

Specifics

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

Features

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