SBP series

DATASHEET

ENGLISH V2404

Description

IRRIGATION CONTROLLER

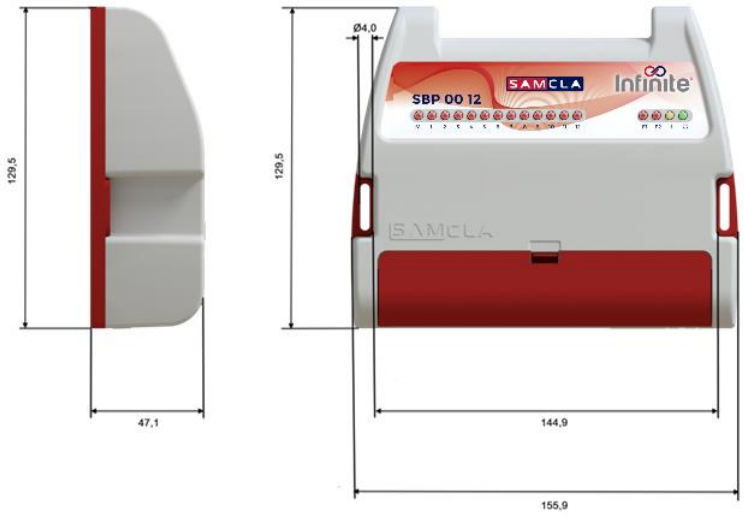
- User programs: 8
- Resident programs: 4
- Start times per program: 6
- Max station run time: 23h30min
- Max number of stations watering simultaneously: 4
- Wireless cut-off sensors: Up to 5 sensors per station.
- Water budget function: 0% - 200%
- ON / OFF / PAUSE modes.
- Controllers association (chaining).
- Daily water overconsumption and underconsumption threshold (Latch water meter models). Automatic leak detection. Real-time alerts.

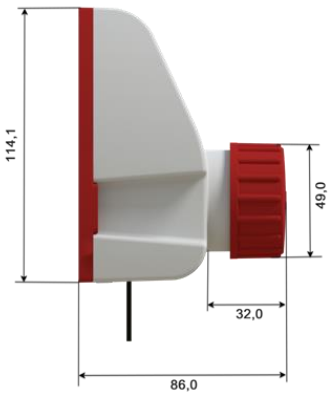
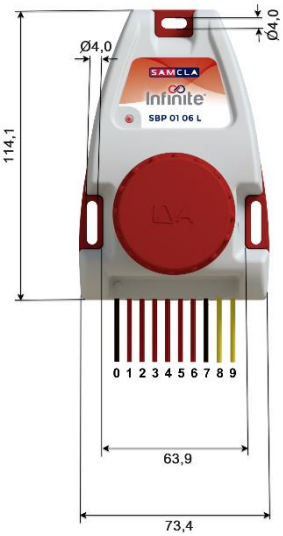
- 4 / 8 / 12 24VAC Stations with Master valve.
- 4 / 10 24VAC Stations with Master valve and Water meter.
- Back up rechargeable batteries.
- Operating modes: Standard / Cyclic / On demand.

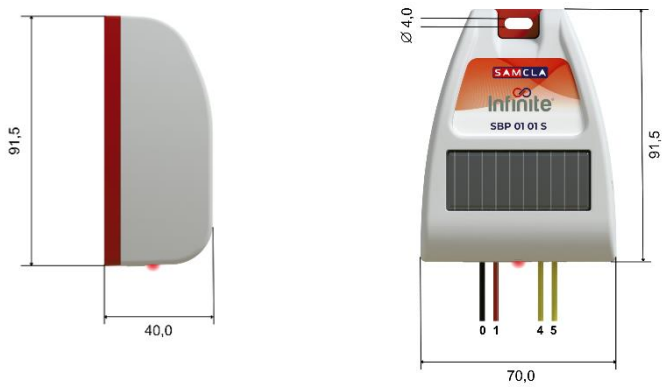
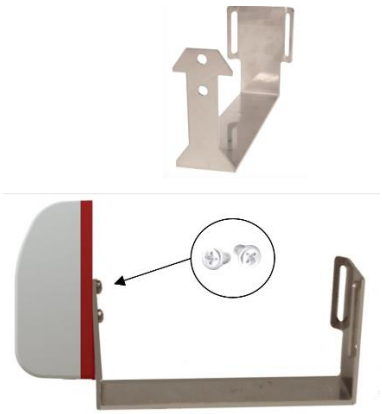
- 1 / 2 / 4 / 6 9VDC Latch Stations.
- 1 / 2 / 4 9VDC Latch Stations with Master valve and Water meter.
- Operating modes: Standard / Cyclic / On demand
- Master valve operating mode: Linked to a controller association (chain).
- Safety solenoid valve mode

- 1 9VDC Latch Station.
- Solar panel operated.
- Operating modes: Standard / Cyclic / On demand
- Master valve operating mode: Linked to a controller association (chain).

SUPPLIED PARTS

CONTROLLER UNIT [mm]	TRANSFORMER 230VAC / 24VAC 1A
	
	MOUNTING PARTS
	

CONTROLLER UNIT [mm]		
		
MOUNTING PARTS	**2 x AA BATTERY (included)**	
		

SOLAR CONTROLLER [mm]	MOUNTING PARTS
	

ORDERING INFORMATION

MODEL	REFERENCE	DESCRIPTION
		
SBP 00 04	SBP052B8P	24VAC 4 Stations controller
SBP 00 08	SBP092B8P	24VAC 8 Stations controller
SBP 00 12	SBP0D2B8P	24VAC 12 Stations controller
SBP 02 04	SBP252B8P	24VAC 4 Stations controller, Water meter
SBP 02 10	SBP2B2B8P	24VAC 10 Stations controller, Water meter
		
SBP 01 01 L	SBP110B8P	9VDC Latch 1 Station controller
SBP 01 02 L	SBP120B8P	9VDC Latch 2 Stations controller
SBP 01 04 L	SBP140B8P	9VDC Latch 4 Stations controller
SBP 01 06 L	SBP160B8P	9VDC Latch 6 Stations controller
SBP 02 01 L	SBP210B8P	9VDC Latch 1 Station controller, Water meter
SBP 02 02 L	SBP220B8P	9VDC Latch 2 Stations controller, Water meter
SBP 02 04 L	SBP240B8P	9VDC Latch 4 Stations controller, Water meter
		
SBP 01 01 S	SBP116B8P	Solar 9VDC Latch 1 Station controller

Technical specifications

MECHANICAL SPECIFICATIONS

Enclosure	ABS
Operating temperature range	-15ºC to 55ºC / 5ºF to 131ºF

IP Protection	IP2x / Indoor or outdoor under cover
Weight (approx.)	298g / 10.5oz

IP Protection	IP68 - 0.5m / 19in
Weight (approx.)	184g / 6.5oz

IP Protection	IP66
Weight (approx.)	175g / 6oz

ELECTRICAL SPECIFICATIONS

Short circuit protection	Yes
RF Band	868 MHz Free SRD band
RF range (open area)	1000m / 3281ft
Bluetooth	Bluetooth 5.0

Power supply	24VAC / 1A
Water meter input 9VDC Latch	Dry contact / 20Hz max.
Output	24VAC

Power supply	2 x AA Battery
Water meter input 9VDC Latch	Dry contact / 20Hz max.
Local cut-off sensor (Infinite BLE only)	Dry contact
Output	9VDC Latch

Power supply	Solar panel
Local cut-off sensor (Infinite BLE only)	Dry contact
Output	9VDC Latch

STATUS LED

⏻	**Power supply**	ON: Power supply OK OFF: No power supply
i	**Info**	Blinks once: Warning Blinks twice: Device restart OFF: Ready
F1 / F2	**Auto fuse**	OFF: Ready. ON: Fuse 1 overload. Unplug transformer for at least 30min, then plug again.
M 1 2 3 .. 12	**Output**	ON : Output activated OFF : Output disabled
	**Red light**	1 blink: Alert 2 blinks: Restarting the device OFF : Ready

Installation

WIRING

24VAC	Power input
24VAC	Power input
C	Common
M/P	Master Valve / Pump
EV1	Station 1
EV2	Station 2
EV3	Station 3
EV4	Station 4
EV5	Station 5
EV6	Station 6
EV7	Station 7
EV8	Station 8
EV9	Station 9
EV10	Station 10
EV11 / S+	Station 11 For models without water meter. Dry contact input for models with water meter. Input (+) for water meters equipped with an “Open Collector” electronic pulse transmitter
EV12 / S-	Station 12 For models without water meter. Dry contact input for models with water meter. Input (-) for water meters equipped with an “Open Collector” electronic pulse transmitter

- Open connectors cabinet and remove the plastic tap protection for the backup battery.
- The Info LED should flash twice to indicate that everything is OK when the device is powered on, then the LED should turn off.

0	Black	Common
1	Red	Station 1
4 - 5	Yellow	Local cut-off sensor

- Remove battery cap.
- Status led should blink twice to indicate everything is OK and turn off afterwards.

	**0**	Black	Common
	1	Red	Station 1
	2	Red	Station 2
	3	Red	Station 3
	4	Red	Station 4
	5	Red	Station 5
	6	Red	Station 6
	7	Black	Common
	8 - 9	Yellow	Local cut-off sensor

- Remove battery cap.
- Extract battery holder and place batteries maintaining the correct polarity.
- Insert battery holder and place battery cap. Status led should blink twice to indicate everything is OK and turn off afterwards.
- Warning: Local cut-off sensor is intended for Infinite BLE architecture ONLY. In this case, cut the loop and connect your local cut-off sensor.

	**0**	Black	Common
	1	Red	Station 1
	2	Red	Station 2
	3	Red	Station 3
	4	Red	Station 4
	5	Black	Common
	6	Yellow	Dry contact water meter Input (-) for water meters equipped with an electronic pulse transmitter « Open Collector »
	7	Green	Dry contact water meter Input (+) for water meters equipped with an electronic pulse transmitter « Open Collector »

- Remove battery cap.
- Extract battery holder and place batteries maintaining the correct polarity.
- Insert battery holder and place battery cap. Status led should blink twice to indicate everything is OK and turn off afterwards.
- Warning: Local cut-off sensor is not available for Infinite BLE.

PROGRAMMING MODES

MODE	MODELS	DESCRIPTION
Standard	All	Sequential activation program, with or without water meter depending on the model.
Cyclic	All	Continuous repetition of a program in a window time, with or without water meter depending on the model. The program is divided into stages where multiple stations can irrigate at the same time. (Ex: for 8 hours, you can irrigate 10 min every 30 min)
On demand	All	Sequential activation program, with or without water meter depending on the model, without a start time. The program stard is linked to the activation of an external sensor.
Master valve	SBP 01 01 L SBP 02 01 L SBP 01 01 S	Program linked to the master solenoid valve of a programmers chain. Its opening is automatic according to the chained devices programs.
Safety valve	SBP 02 01 L	Manual valve automatic telemanagement in case of water over-consumption or under-consumption.

SET UP

- A Samcla Smart Platform access account is mandatory to go further with installation.
- Download Samcla Infinite BLE APP in case you want to manage the irrigation controller from the stand alone Bluetooth operating architecture. Then sign up.
- Download Samcla Infinite HUB APP in case you want to manage the irrigation controller from the HUB operating architecture. Then sign up.
- Once your access account is available, please sign in the corresponding APP and select "+" option to add a new device. Then follow screen indications. Refer to the quick guide APP's for further information.

FAQ'S

I am trying to add a new device in the Infinite BLE APP, but the device is not shown in the Bluetooth scanning list.

In case you're using a 24VAC controller, check the power supply led is ON. In case you're using a latch VDC controller, remove battery holder and check batteries polarity. Insert again the battery holder and check the status led blinks twice, if not, replace batteries. In any case proceed standing close to the device, less than 2m is recommended.

Electrovalves "click" when replacing batteries.

Yes, it's OK. DC latch controllers ensures all stations are closed after a reset.

Irrigation starts properly in a 24VAC controller, but it stops after a while and F1 and/or F2 turn ON indefinitely.

Device is overloaded. Remove power mains for at least 30 min in order to recover fuses. Probably you are running more than one electrovalve at same time. Up to 4 electrovalves are permitted to run simultaneously, but it is depending on solenoids current consumption. Keep in mind that old solenoids could increase current consumption considerably.

Can I use the local cut-off sensor when my controller operates connected to a HUB?

No. Local cut-off sensor is intended only for Bluetooth operating architecture.

Notices and Licenses for Software

Please, refer to https://oss.samcla.com for more information.

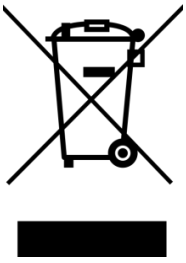
Certificate of Conformity to European Directives

SAMCLA - ESIC, S.L. declares under its sole responsibility that the SBP reference SBPXXXB8P complies with the standards of the European Directives of "Radio Equipment" (2014/53/EU).

CE

Waste electrical and electronic equipment

This symbol (right) is shown on this product. It indicates that the product should not be disposed of with regular household waste, but should be disposed of separately. Electrical and electronic equipment can contain materials that are hazardous to the environment and human health and therefore should be disposed of at a designated waste facility or returned to your retailer for the appropriate recycling to take place.



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