



IoT-based Solution for Complex Water Systems

SERIE SPH-ATPX-XX-X



Mechanical specifications

Dimensions	165 x 150 x 55 mm
Weight	490 g
Material	ASA, EFTE
Working temperature	-20°C to 50°C
Accessories	3 IO cables (1 m) Quickstart guide

Connectivity

Network	GPRS, NB-IoT, LTE-M
Antenna	Internal
SIM card	Inside the device

Power specifications

Power supply	Embedded 1.5 W solar panel**
Internal battery	LiPo 5000 mAh

Certifications

Europe	CE Marking
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Sensors

Pressure sensor	I ² C (30 bar)
Soil sensor	SDI-12 (Sentek 60 cm) SDI-12 (Enviropro 40 cm) SDI-12 (Enviropro 80 cm)
EC sensor	SDI-12 (EC ES2)
Level sensor	I ² C (50 m)

General specifications

Inputs	4 (Flowmeter or digital input))
Outputs	8 (Latch relay or latch solenoid)
Output voltage	14 V
Sensor input	1 (I ² C), 1 (SDI-12)
Remote configuration	Sphera Platform
Visual indicator	LED (status) Searching (1 flash / 1 sec) Connecting (1 flash / 1 sec) Connected (no flash)

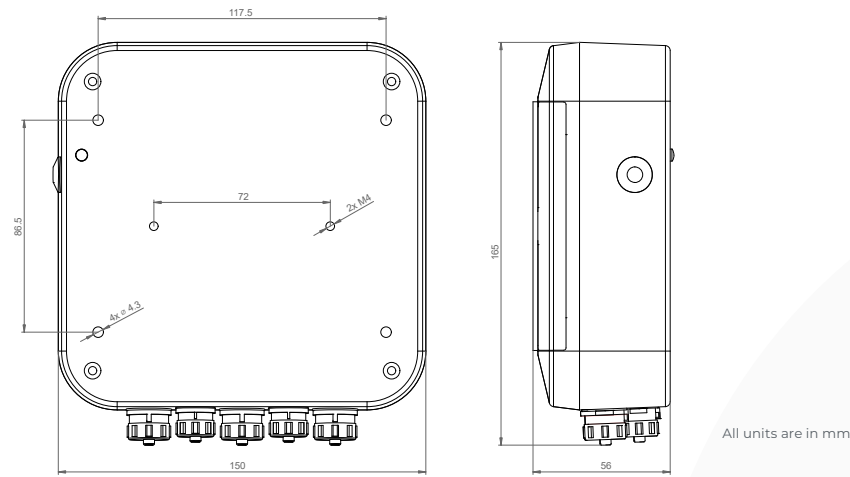
Power modes

	real time
Uplink communications (sensors)	1h*
Uplink communications (others)	Asynchronous
Downlink communications	Asynchronous

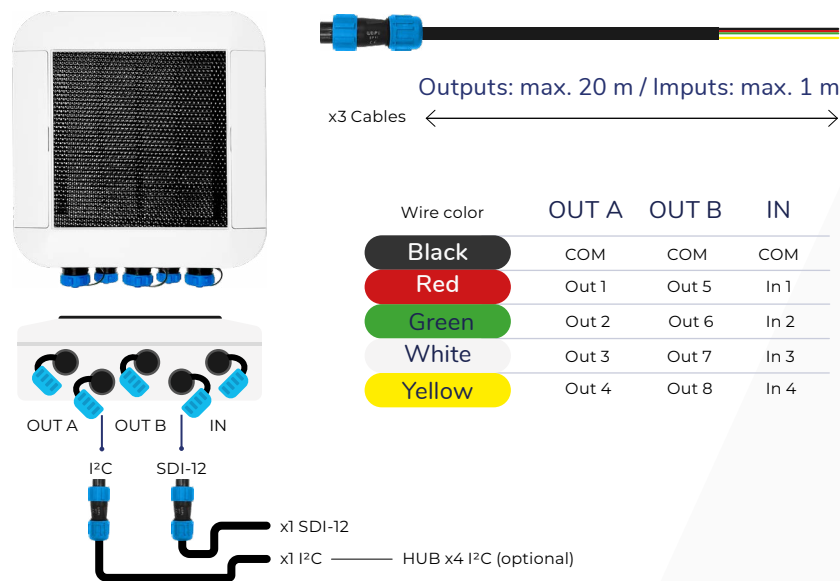
* Please contact us for other synchronization options.

** Also available through external power supply.

Dimensions and anchors



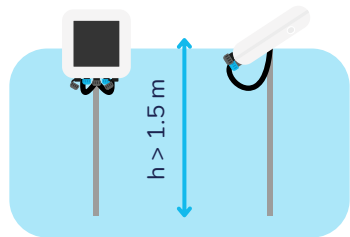
Connections



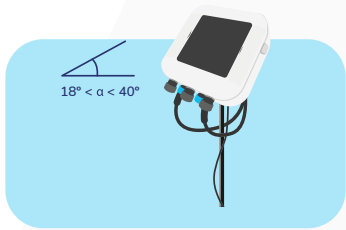
Wire color	OUT A	OUT B	IN
Black	COM	COM	COM
Red	Out 1	Out 5	In 1
Green	Out 2	Out 6	In 2
White	Out 3	Out 7	In 3
Yellow	Out 4	Out 8	In 4

We recommend using resin-filled watertight connectors and terminating unconnected cables with them to prevent oxidation.

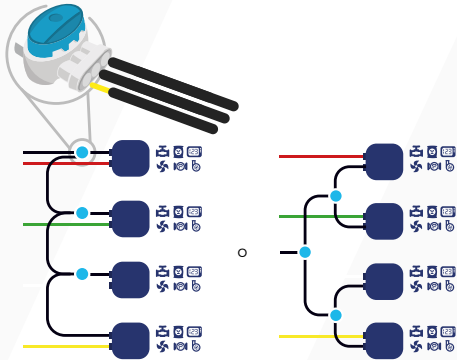
Field installation recommendations



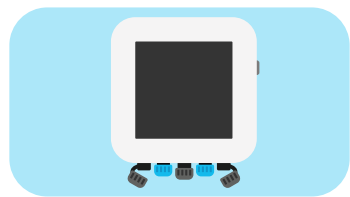
1. Screw the device firmly onto a support, 1.5 meters above the ground.



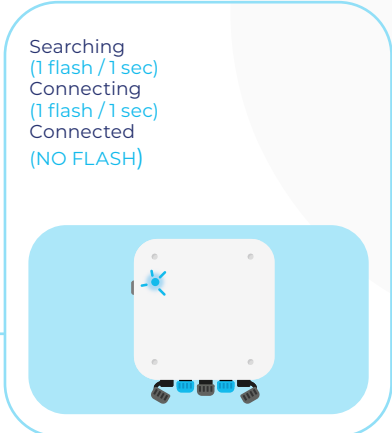
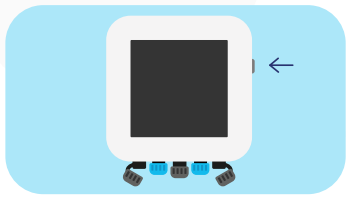
2. Place the device facing the sun. In Spain, for example, to the south at an angle of 30°.



ATLAS power-on



1. Press the power button on the right side of the device.



2. Check the LED blinking.