



IoT-based Solution for Complex Water Systems

SERIE TH-ATPX



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

Sensors

Pressure sensor	I ² C (30 bar)
Soil sensor	I ² C (Soil temperature, VWC)
	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 (10m) I ² C (50 m)

Connectivity

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

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	Spherag Platform
Visual indicator	LED (status)
Searching	(1 flash / 1 sec)
Connecting	(1 flash / 1 sec)
Connected	(no flash)

Power specifications

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

Certifications

Europe	CE Marking
Ip rating	IP68

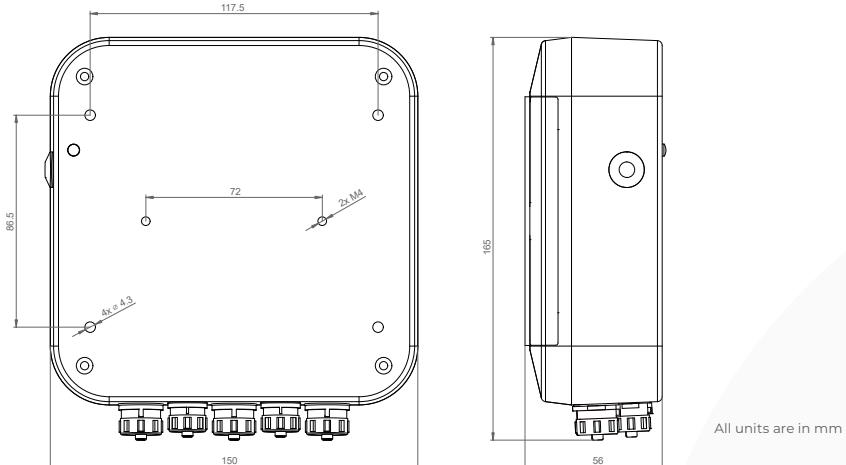
Power modes

	real time	sleep
Uplink communications (sensors)	1h**	8h
Uplink communications (others)	Asynchronous	8h
Downlink communications	Asynchronous	8h

* Also available through external power supply.

** Please contact us for other synchronization options.

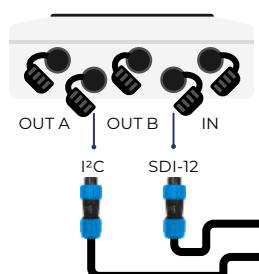
Dimensions and anchors



Connections



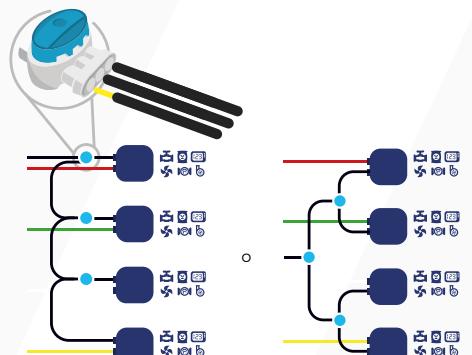
Outputs: max. 20 m / Inputs: max. 1 m
x3 Cables



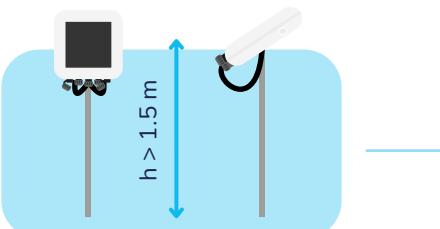
Wire color	OUT A	OUT B	IN
Black	COM	COM	COM
Red	Out 1	Out 5	In 1
Green	Out 2	Out 6	In 2
White	Out 3	Out 7	In 3
Yellow	Out 4	Out 8	In 4

x1 SDI-12
x1 I²C ————— HUB x4 I²C (optional)

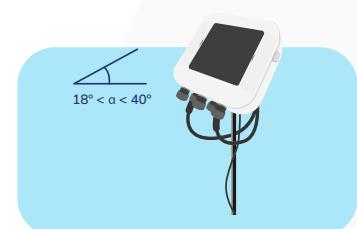
We recommend using resin-filled watertight connectors and terminating unconnected cables with them to prevent oxidation.



Field installation recommendations

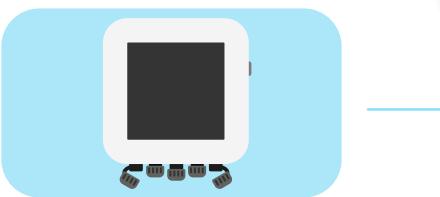


1. Screw the device firmly onto a support, 1.5 meters above the ground.

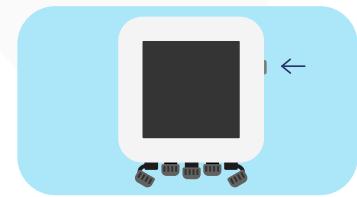


2. Place the device facing the sun. In Spain, for example, to the south at an angle of 30°.

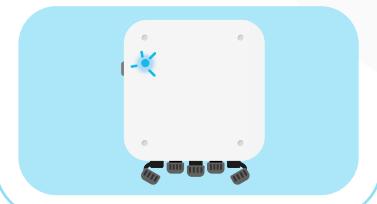
ATLAS power-on



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



Searching
(1 flash / 1 sec)
Connecting
(1 flash / 1 sec)
Connected
(NO FLASH)



2. Check the LED blinking.