

# ATLAS X

## The new IoT-based Solution for monitoring and automating Water Systems

The Atlas X IoT-based solution developed by Spherag enables intelligent and integrated irrigation management. It is integrated with Spherag platform and thanks to our innovative technology, allows delocalized monitoring and data based automation.



Ref ATX	Ref ATX with subscription
TH-ATXL	TH-SUB-ATXL
TH-ATX2	TH-SUB-ATX2
TH-ATX4	TH-SUB-ATX4
TH-ATX8	TH-SUB-ATX8

### Mechanical specifications

Dimensions	140 x 125 x 45 mm
Weight	490 g
Material	ASA, ETFE
Working temperature	-10°C to 50°C
Accessories	2 I/O cables (1,5 m) Quickstart guide

### Connectivity

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

### Certifications

Europe	CE Marking
IP rating	IP68
IK rating	IK-07

### General specifications

Inputs	8 (Flowmeter or digital input)
Outputs	8 (Latch relay or latch solenoid)
Output voltage	9 ~ 18 Vdc
Remote configuration	Spherag Platform
Visual indicator	LED (status)
Sample time	[5 min - 1 h]
Uplink communications period (sensors)	[15 min - 24 h]
Uplink communications (events)	[15 min - 24 h]
Dowlink communications	<10"

### Sensors

Pressure sensor	I <sup>2</sup> C (30 bar)
Soil sensor	I <sup>2</sup> C (Soil temperature, VWC) SDI-12 (Sentek) (T <sup>a</sup> , H, EC)
Ambient	SDI-12 (Enviropro) (T <sup>a</sup> , H, EC)
EC sensor	I <sup>2</sup> C
Level sensor	SDI-12 (EC ES2)
	I <sup>2</sup> C (10 m)
Generic Sensor	I <sup>2</sup> C (50 m)
	4-20 mA

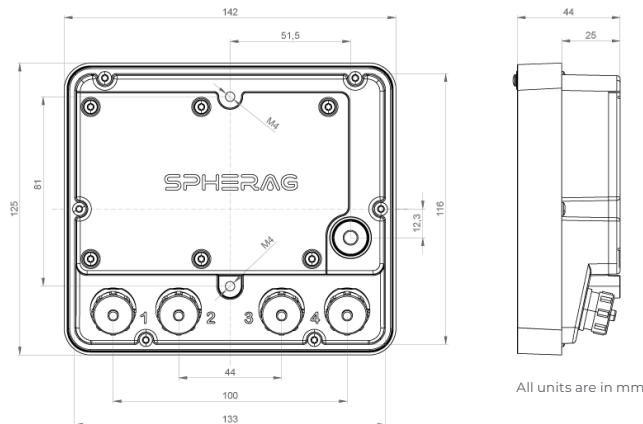
### Power specifications

Power supply	Embedded 2,5 W solar panel
Internal battery	LiPo 8000 mAh
External Power Supply	5 ~ 24 Vdc

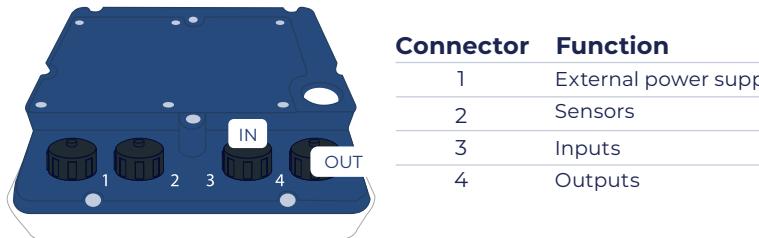
### Capabilities

Alarm Sources	Water meter External Sensor Internal Sensor Digital inputs
Remote Diagnosis	BLE
Firmware	FOTA
Internal Sensors	Battery level Solar panel voltage Temperature Humidity

## Dimensions and anchors



## Connections

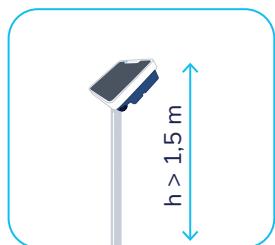


Cable length  
Outputs: max. 20 m / Inputs: max. 1,5 m

Connector	Function
1	External power supply
2	Sensors
3	Inputs
4	Outputs

Wire color	IN (3)	OUT (4)
Red	In 1	Out 1
Green	In 2	Out 2
Purple	In 3	Out 3
Yellow	In 4	Out 4
Blue	In 5	Out 5
Orange	In 6	Out 6
Grey	In 7	Out 7
Brown	In 8	Out 8
Black	COM	COM

## Field installation recommendations

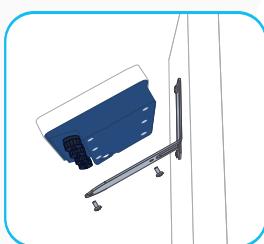


1. Screw the device securely onto a support, 1.5 meters / 60 inches above ground.

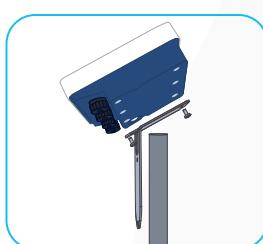


2. Direct the device towards the sun, e.g., facing south at a 30° angle in Spain.

### Mounting on bracket

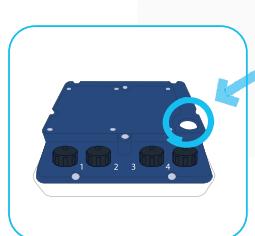


Mounting Atlas on a wall with the bracket.

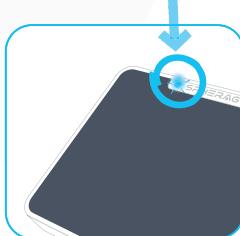


Mounting Atlas on a pole with the bracket..

## Encendido de ATLAS



Press the white button on the back



Check the LED color to determine the status

### LED color Color del LED

- Connecting
- Connected
- Error