Atlas+

DATASHEET

Iot-based Solution for
Complex Water Systems

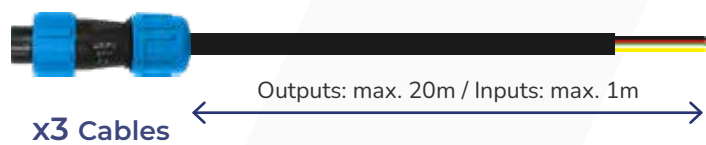

SPHERAG

Atlas+

Iot-based Solution for Complex Water Systems
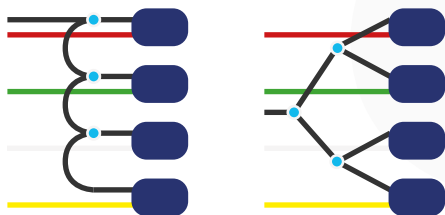
SPH-ATP8-XX

Overview

The ATLAS + IoT-based solution developed by Spherag enables intelligent and integrated management of complex water or irrigation systems: monitoring, automation and programming.

x3 Cables

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

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

OUT A   OUT B   IN

x1 SDI-12

x1 I2C/4-20$_{mA}$

Connections

We recommend the use of resin-filled waterproof connectors, and to terminate non-connected cables with them to prevent oxidation.

Mechanical specifications

Device dimensions	**165 x 150 x 55 mm**
Device weight	**490 g**
Material	**ASA**
Operating temperature	**-20°C to 50°C**
Accessories	**3 IO cables (1 m)**
	Quickstart guide

General specifications

Inputs	**4 (flowmeter or digital input)**
Outputs	**8 (latch relay or latch solenoid)**
Output voltage	**14 V**
I2C / 4-20mA	**1**
SDI-12	**1**
Remote configuration	**Via Spherag Platform**
Visual indicator	**LED (status)**
Uplink communications (sensor)	**1 h**
Uplink communications (others)	**Asynchronous**
Downlink communications	**Asynchronous**
Remote terminal	**BLE**
Firmware updates	**FOTA**
Mesh integration	**Atlas 2 & Atlas +**

Connectivity

Wireless communicatiosn	**GPRS, NB-IoT, LTE-M**
Antenna	**Internal**
SIM card	**Vodafone (AT&T)**

Power specifications

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

Sensors

Weather sensor	**I2C (temperature, humidity)**
Pressure sensor	**I2C (30 bar)**
Soil sensor	**I2C / SDI-12 (soil temperature, VWC)**
Level sensor	**I2C (10 m)**
Internal sensors	**Battery level**
	Solar panel voltage
	Temperature
	Humidity

Installation

Plug & Play	**Install the Atlas + facing the sun, conect devices and press the button**