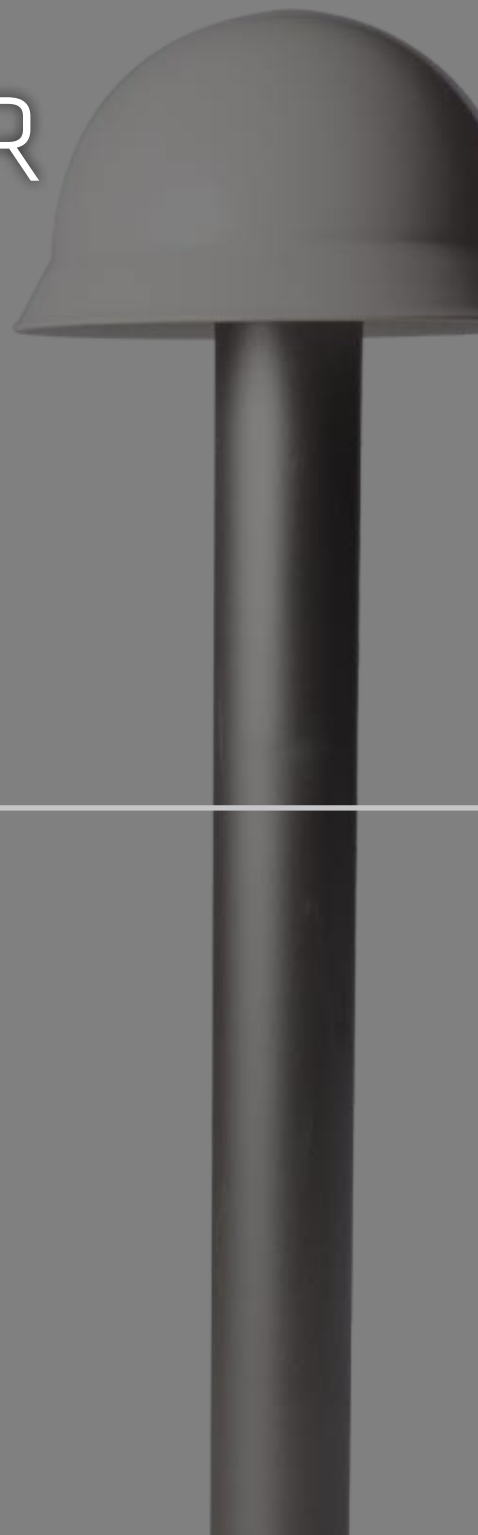
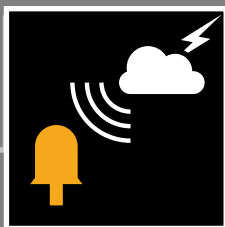


# ATFLASH SENSOR USER GUIDE



ATFLASH  
Sensor





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## A. INSTALLATION INSTRUCTIONS.

For the installation of **ATFLASH Sensor**, 3 parts will be considered:

### Sensor:

- Always placed outdoors and above the roof.
- Provided with a multicore female connector.

### Cable:

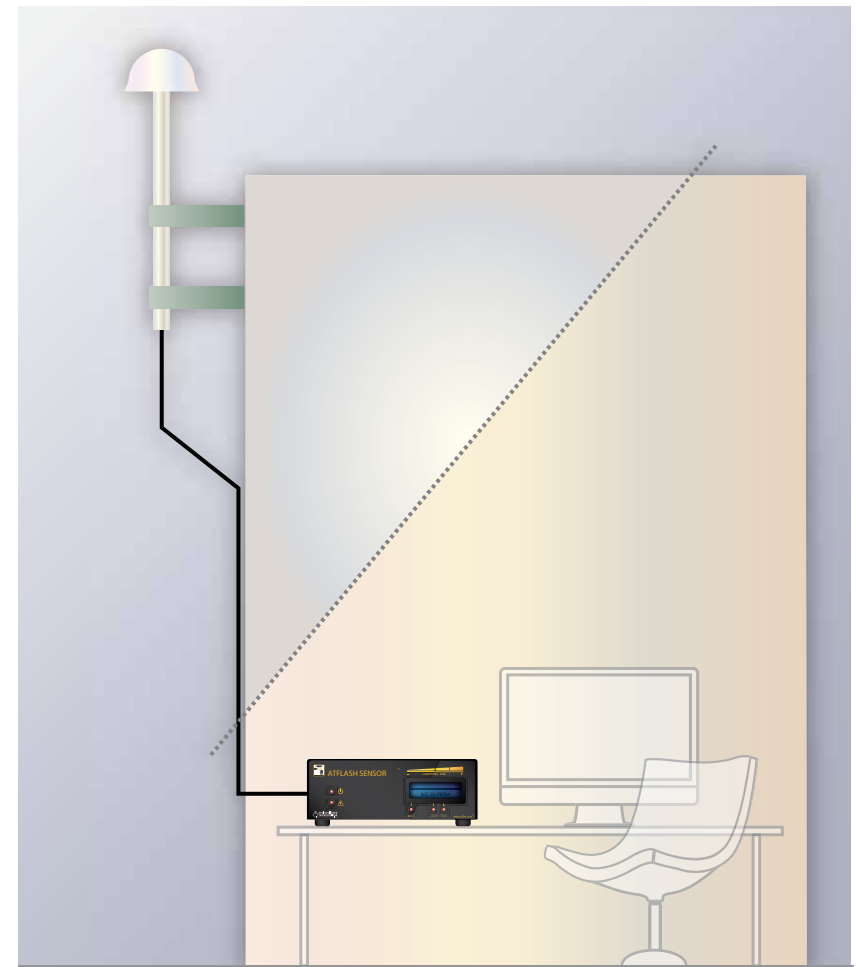
- 25m cable
- Provided with a multicore male connector at one end (for connecting with the Sensor)

### Console:

- Always placed indoors

## COMPONENTS:

- 1 Sensor
- 1 Mast 1 1/2", 2m long
- 4 Screws M8x10mm
- 2 Anchorage pieces
- 25m connection cable
- 1 console
- 1 Power supply cable with schuko



## B. SENSOR: FIXING AND CONNECTIONS.

- Fix the anchorages to the wall.
- Pass the connecting cable through the mast and connect it to the sensor (see note).
- Fix the sensor to the mast with the provided 4 screws (M8).
- Place the mast with the sensor in the anchorage.
- The part of the cable running outdoors should be placed inside a guard tube. If this part is longer than 1 meter then that tube should be fixed to the wall.
- The Console is a desktop device so no installation or special subsection is needed.
- The system is supplied with 25m connecting cable. Once the cable enters the building and reaches the place to be installed then it can be cut to the proper length (it has no connector).

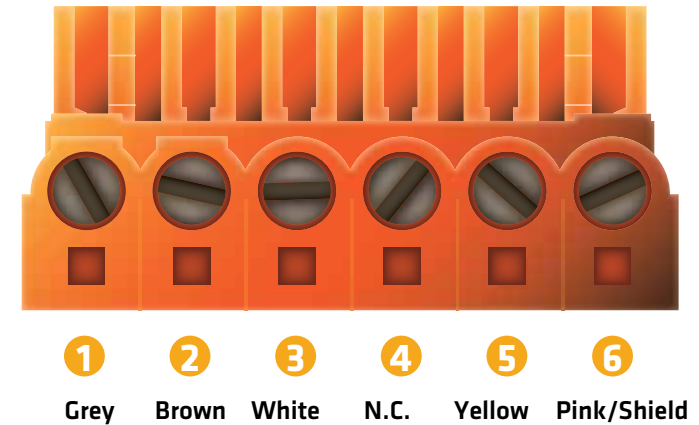
### CABLE CONNECTOR



### SENSOR CONNECTOR



- Fasten the cables in the connector. It is very important to follow carefully the color code:



- Connect to the power supply.

### + IMPORTANT

**Note: The connecting cable is provided with a ferrite in one of its ends. It must be inside the mast.**

**Do not handle.**

## C. TURN ON/OFF.

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### C.1. TURN ON

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- 1. Plug the power cable in the appropriate receptacle in the back of the console.
- 2. Plug the schuko into the power supply.
- 3. Use the **ON/OFF** switch to turn on the equipment .

### C.2. TURN OFF

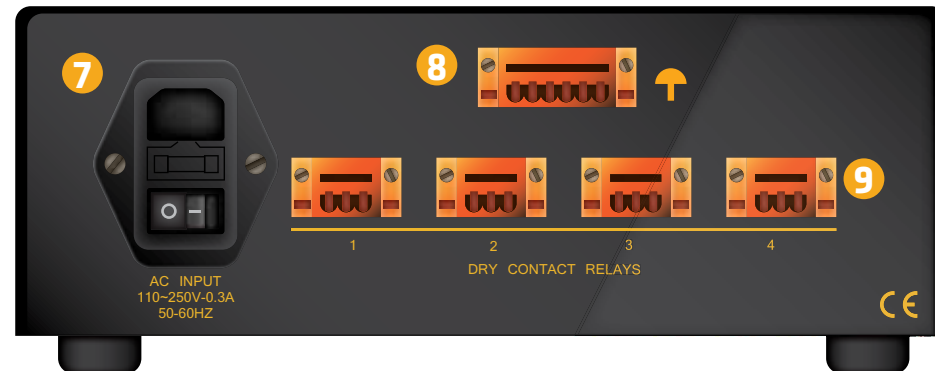
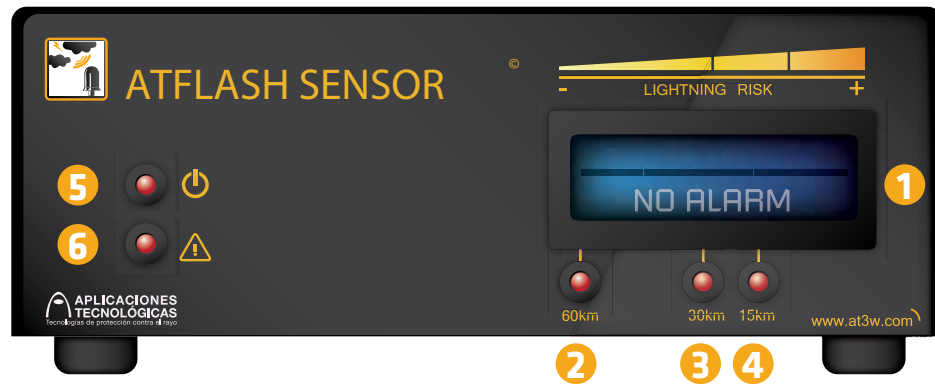
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- 1. Use the **ON/OFF** switch to turn off the equipment.
- 2. If it is necessary to remove power cable, unplug the schuko to the power supply first.

### **IMPORTANT**

**NOTE: Provide the equipment a ground connection → This equipment is connected to ground through the grounding line of the power supply . To avoid electrical shock connect always this conductor to a grounded socket**

## D. CONSOLE: FIXING AND CONNECTIONS.



- 1 LCD Screen
- 2 Alarm indicator Led: Storm is located between 60-30Km
- 3 Alarm indicator Led: Storm is located between 30-15km
- 4 Alarm indicator Led: Storm is located less than 15Km
- 5 Power indicator Led.
- 6 No communication indicator Led.
- 7 Switch ON/OFF and Power Schuko
- 8 Cable connector for the sensor
- 9 Dry contact relays

## E. LCD SCREEN INFORMATION.

The LCD gives the information about the sensor state and the storm state with two lines of characters as follows:

### E.1. SENSOR STATE

No communication between the sensor and the console.



**NO COMMUNICATION**

The sensor is sending wrong data

\*\*\*\*\*

**DATA ERROR**

### E.2. STORM STATE

1<sup>st</sup> Alarm Level



**STORM < 60KM**

2<sup>nd</sup> Alarm Level



**STORM < 30KM**

3<sup>rd</sup> Alarm Level



**STORM < 15KM**

### + IMPORTANT

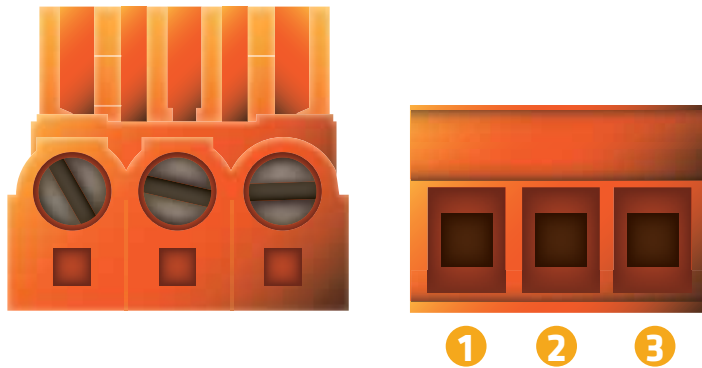
**NOTE: During the alarm state, the screen's first line changes in accordance to the proximity of the storm.**



## F.DRY CONTACT RELAYS INFORMATION.

The Console is equipped with four free-contact outputs. Those outputs are four relays with two contacts: one normally open and the other normally closed.

The connections are as follows:



- 1 Normally open
- 2 Common
- 3 Normally closed

From left to right the configuration is:

1. No **CONNECTION RELAY**
2. 3rd **ALARM LEVEL RELAY**
3. 2nd **ALARM LEVEL RELAY**
4. 1st **ALARM LEVEL RELAY**

## G. ATFLASH SENSOR TECHNICAL SPECIFICATIONS.

### OPERATING SPECIFICATIONS

<b>Detection Range</b>	3 alarm levels
<b>60Km around the sensor</b>	Alarm sound
<b>Alarm levels</b>	80 dB

### SENSOR ELECTRICAL SPECIFICATIONS

<b>DC Voltage</b>	+/- 12Vdc
<b>Protections</b>	The sensor is protected against overcurrents and surges.

### CONSOLE ELECTRICAL SPECIFICATIONS

<b>Power supply</b>	110-250Vac
<b>Frequency</b>	50-60Hz
<b>Power</b>	15 W
<b>Relays outputs</b>	4 outputs (3 storm alarms and another one for no communication)
<b>Protections</b>	Protected against overcurrents and surges.

### ENVIRONMENTAL SPECIFICATIONS

<b>Sensor working temperature</b>	-40 to 85°C
<b>Console working temperature</b>	-10 to 85°C

### SENSOR MECHANICAL SPECIFICATIONS

<b>Weight</b>	347,5gr
<b>Dimensions</b>	Ø170 x 95 mm
<b>Cable</b>	25m
<b>Maximum separation distance</b>	100m (optional cable)
<b>Framework material</b>	Polypropylene
<b>IP Code</b>	IP54
<b>Fixing</b>	Fixed to 1 1/2" tube

### CONSOLE MECHANICAL SPECIFICATIONS

<b>Weight</b>	1,3 Kg
<b>Dimensions</b>	227 x 203 x 81 mm
<b>Material</b>	Galvanized steel

### MOUNTING SPECIFICATIONS

<b>Mast (depends on installation)</b>	1/2" 2m galvanized steel mast included.
<b>Anchoring (depends on installation)</b>	U-shaped anchorage consisting of 2 galvanized steel, 30cm long support with screws for wall fixing (all included).
<b>Corrugated tube</b>	Protection tube for communication cable included.



# APLICACIONES TECNOLÓGICAS

ALL TECHNOLOGIES FOR LIGHTNING PROTECTION

[www.at3w.com](http://www.at3w.com)



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