accuraspray 4.0

Quick set-up guide
Online monitoring of thermal spray processes for the shop floor
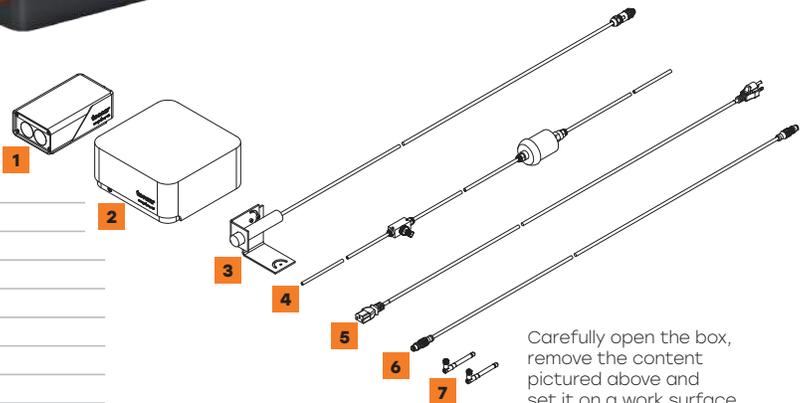
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Before you begin

Unpacking the parts
The box should contain the following items:

1. Sensor head
2. Controller
3. Substrate pyrometer and its support bracket (optional)
4. Air filter and hoses
5. Controller power cable
6. Communication cable between the head and controller
7. Wi-Fi antennas
8. Spare fuses (not pictured below)
9. Neutral density filters (not pictured below)
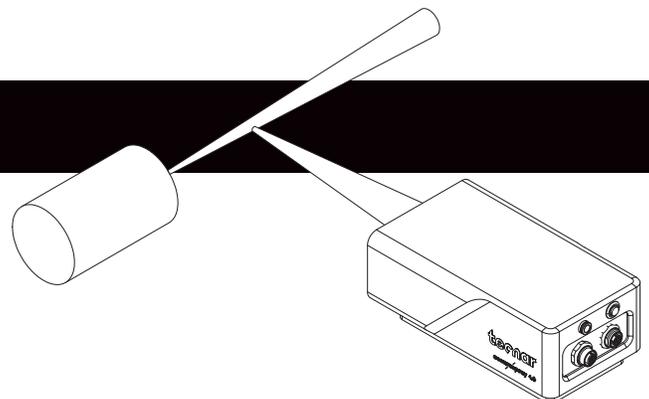10. Calibration sheets (not pictured below)

Carefully open the box, remove the content pictured above and set it on a work surface.

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1. Installing the sensor head

Where to install

Install the sensor head in the spray booth where the robot (spray gun) can easily reach it. It should be a permanent place so the robot can repeatedly reach the sensor head. Also ensure that the sensor head does not interfere with normal spraying operations.
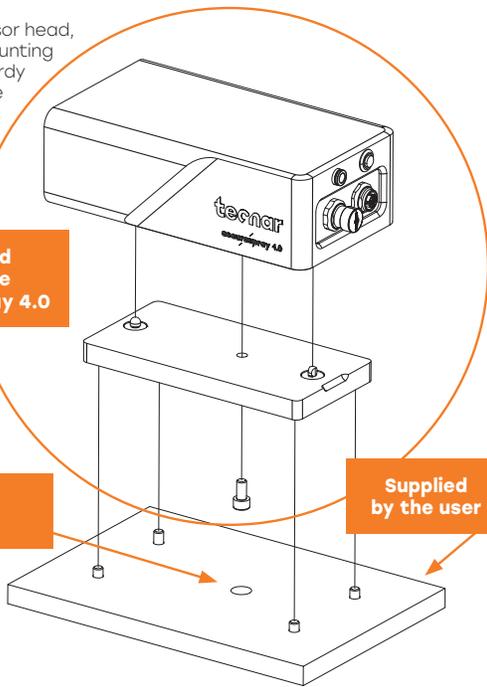
2. Installation procedure

Install the sensor head, using the 4 mounting holes, on a sturdy mounting plate that does not vibrate or move during spraying.

Supplied with the Accuraspray 4.0

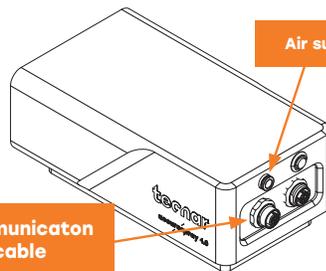**Provide access**

Supplied by the user

3. Adjusting the sensor head

Connect the compressed air supply and the communication cable to the sensor head. Pull the other end of the communication cable out of the spray booth. Connect the air hose to the booth air supply.

Air supply

Communicaton cable

4. Installing the controller

Where to install
Install the controller outside the spray booth.

Installation procedure
Install the Wi-Fi antennas on the controller.

Wi-Fi antennas

Communication cable

Power switch

Power outlet

Connect the sensor head communication cable.

Connect the power cable to the controller and plug into a power socket. Flip the Accuraspray controller power switch to ON.

Wait until the status LED turns green.

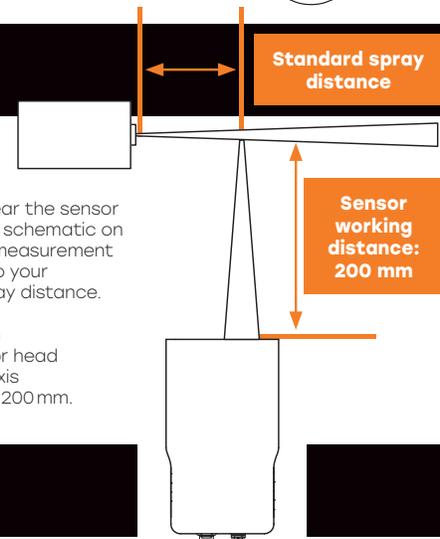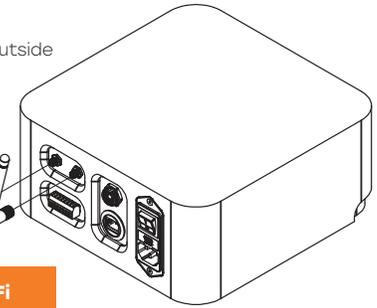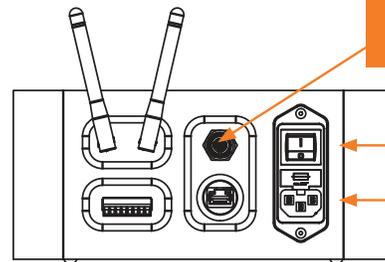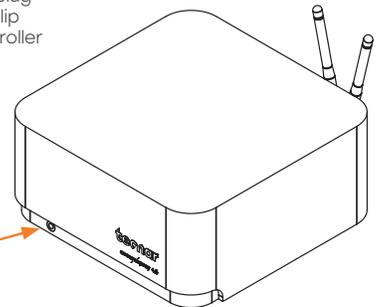**Status LED**

5. Adjusting the spray gun position

Activate the alignment beam using the push button located at the back of the sensor.

Alignment beam switch

Bring the spray gun near the sensor head as shown on the schematic on the right. The sensor measurement point is normally set to your standard process spray distance.

The distance between the front of the sensor head and the spray torch axis should be adjusted to 200 mm.

Standard spray distance

Sensor working distance: 200 mm

6. Accessing the user interface

The Accuraspray 4.0 user interface is accessible via a web browser but it is not actually hosted on the internet. It is streamed from the Accuraspray controller. We recommend using Google Chrome for optimal performance. Go to the normal Wi-Fi menu on your computer or tablet and look for "Accura 4.0 – serial number". The password to access the Wi-Fi is "accura.wifi".

Open your browser and enter the URL: http://accurag4-00000000/ to connect to the Accuraspray user interface. Replace the zeros with the serial number of the unit you are trying to connect. The serial number consists of 8 digits which can be found in the Wi-Fi network name or under the controller.

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