



Smart Sensor Fusion

aero

by AIRSENSE Analytics®

Made in Germany

aero by AIRSENSE Analytics GmbH

Hagenower Straße 73 · Germany · 19061 Schwerin · Phone +49 (0) 385 3993262

plueschke@airsense.aero | www.airsense.aero



www.airsense.aero



The chemical detection in aviation

Made in Germany

OVERVIEW AIRSENSE ANALYTICS GMBH

- ✓ Sensor specialists since 1996
- ✓ German high-tech for international markets
- ✓ Portfolio: Aviation to CBRNe
- ✓ Supplier of NATO through NSPA catalogue since 2012
- ✓ On the forefront of IMS Sensor development with more than 50 successful research projects



Made in Germany

AIRSENSE Analytics GmbH

Hagenower Straße 73 · Germany · 19061 Schwerin Phone +49 (0) 385 3993280 · Fax +49 (0) 385 3993281
email: info@airsense.com · www.airsense.com





in cooperation with

AIRBUS

new tool

aerolyzer

Troubleshooting SOF events quickly

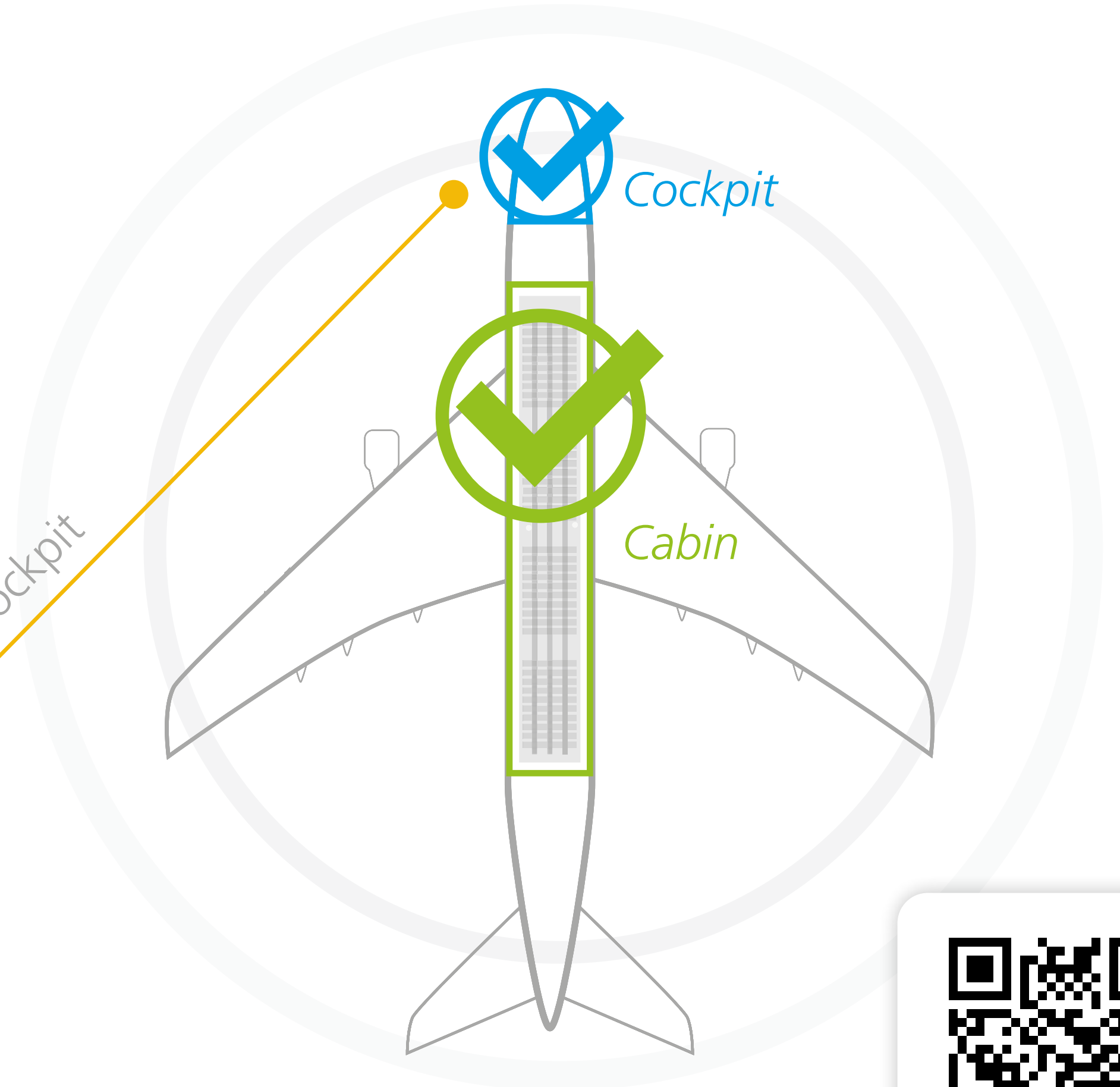
Troubleshooting

> AIRSENSE aerolyzer

AIRBUS-certified ground support equipment (GSE) to identify smell events for troubleshooting purposes in cockpit and cabin on ground



measurement in cockpit



www.airsense.aero

SOF event GSE-Mode

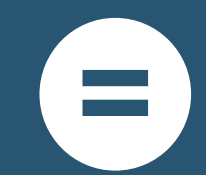
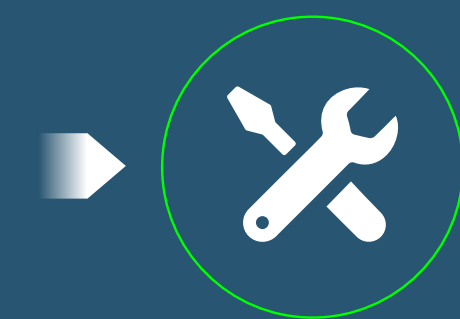
> AIRSENSE aerolyzer

Optimal solution for operators, line maintenance / techops and MROs to identify root cause of a just occurred SOF event

Crew report on SOF event



Reduce downtime by precise T/S



FLIGHT PHASE

1. T/S

MAINTENANCE

SOF event *Flightcase*



➤ AIRSENSE aerolyzer FC available in 2025

Live offline recording of SOF events to accelerate troubleshooting and maintenance even more

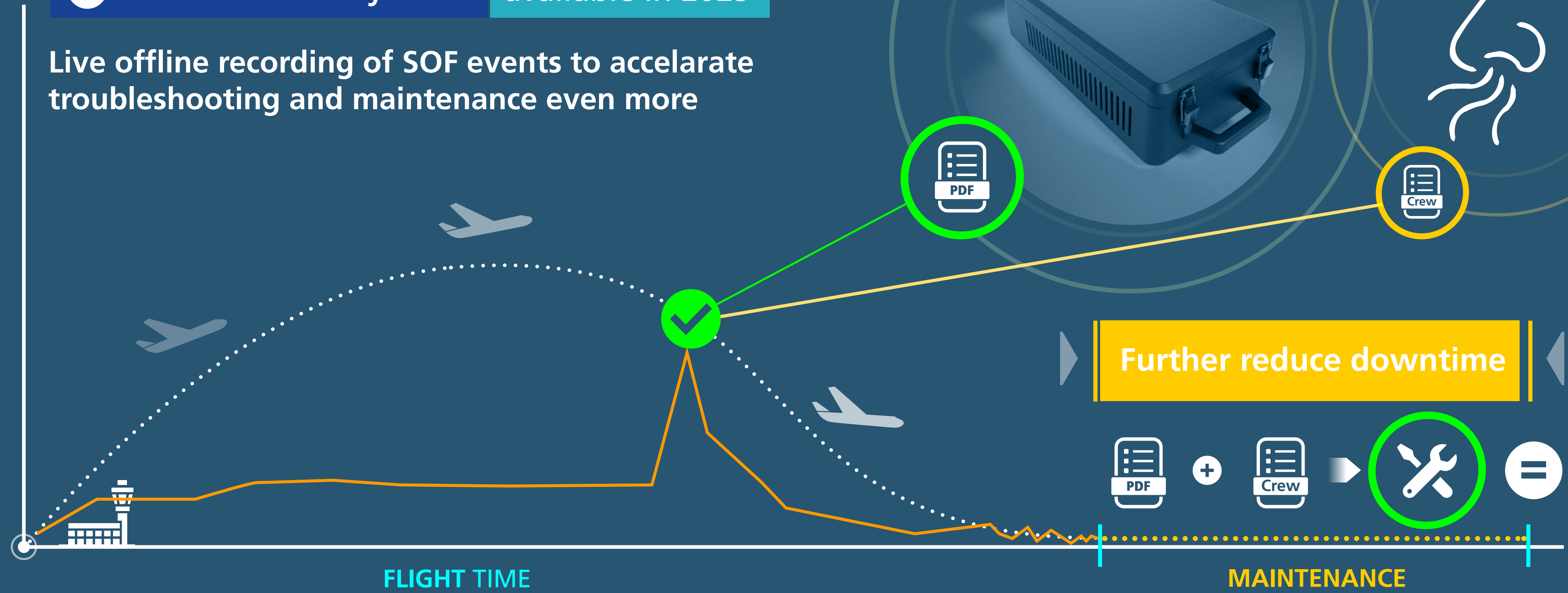
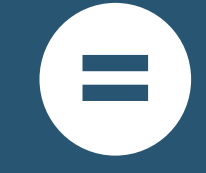
Flightcase records SOF event



Crew Report on odor event



Further reduce downtime



SOF event root cause

> AIRSENSE aerolyzer

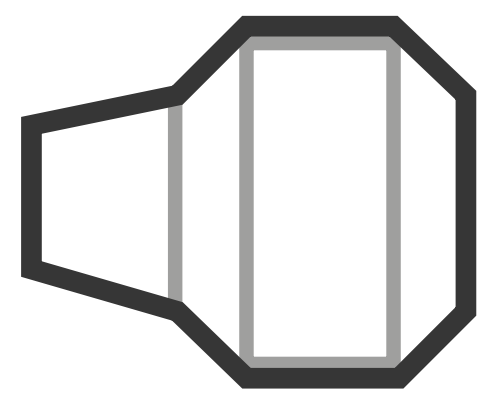
SOF events that require technical attention are usually caused by bleed-air from engine or APU, deicing system, hydraulics or the ECS as well as electrical burning in general (VOC):



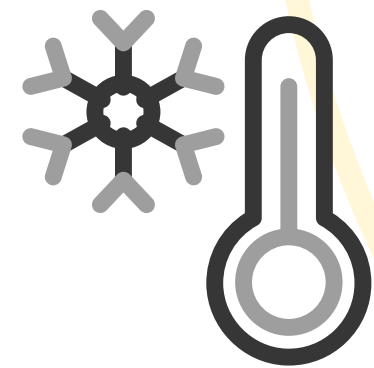
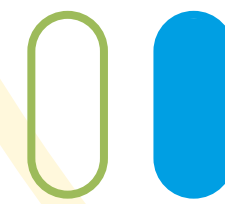
Normal Mode



Engine Oil



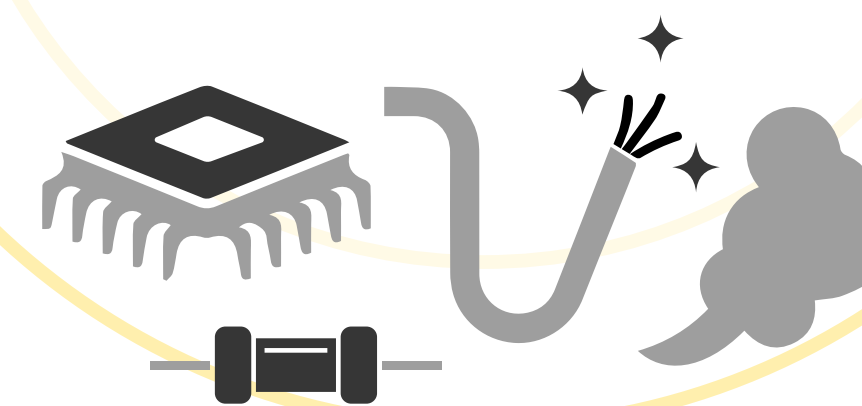
APU Oil



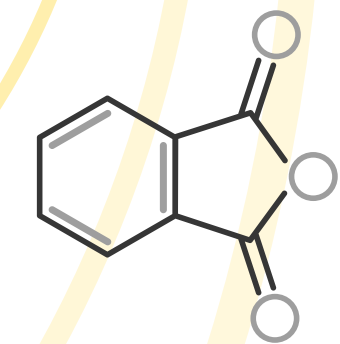
De-Icing



Hydraulic



VOC/Exhaust Fumes



Phthalic anhydride



Advanced Mode

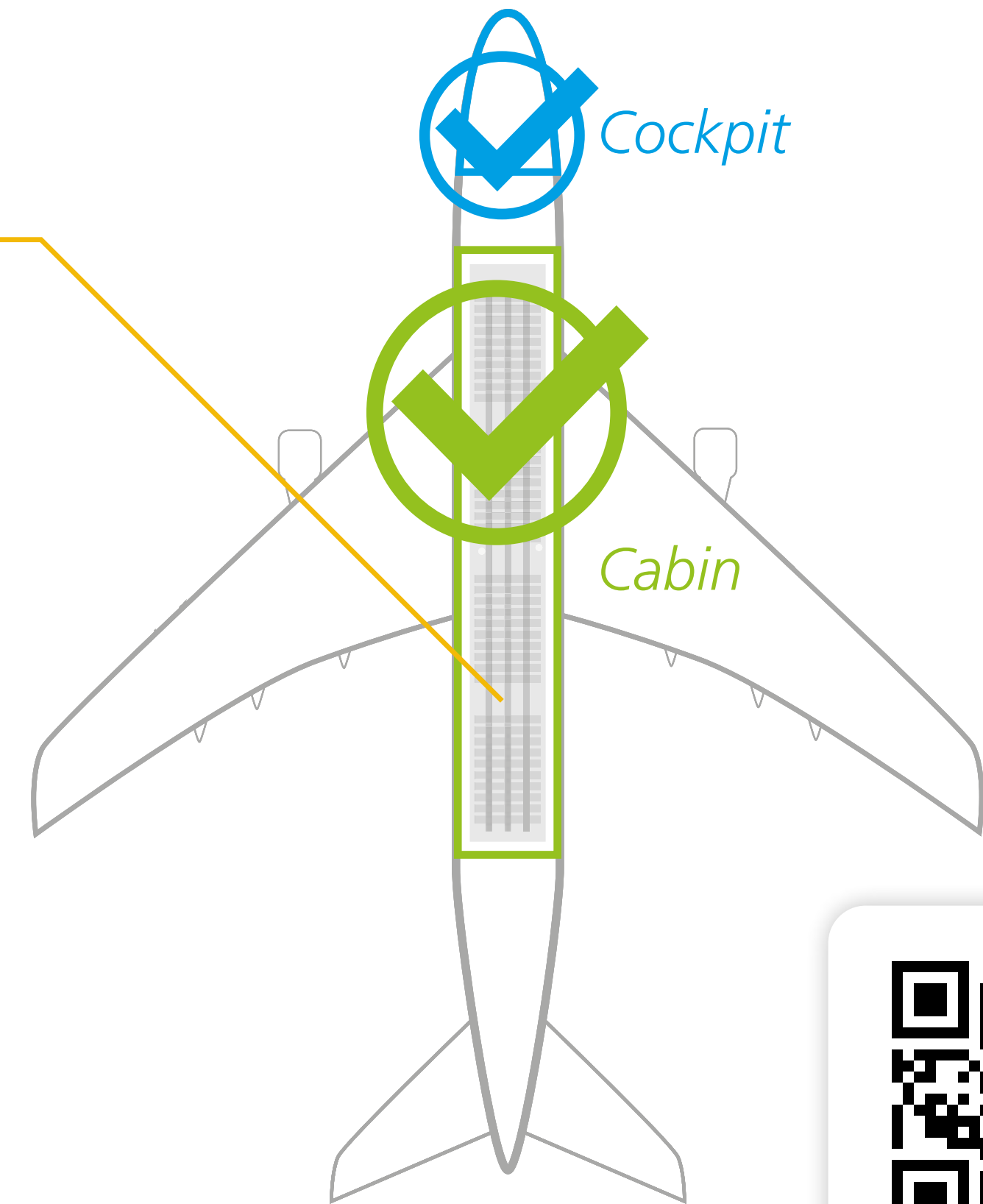
At a glance

+ Important features of the aerolyzer

- Rapid detection of specific SOF root causes in cabin and cockpit of airplanes
- Simple to read HMI design for operators
- 24 months of service intervall

IMS PID

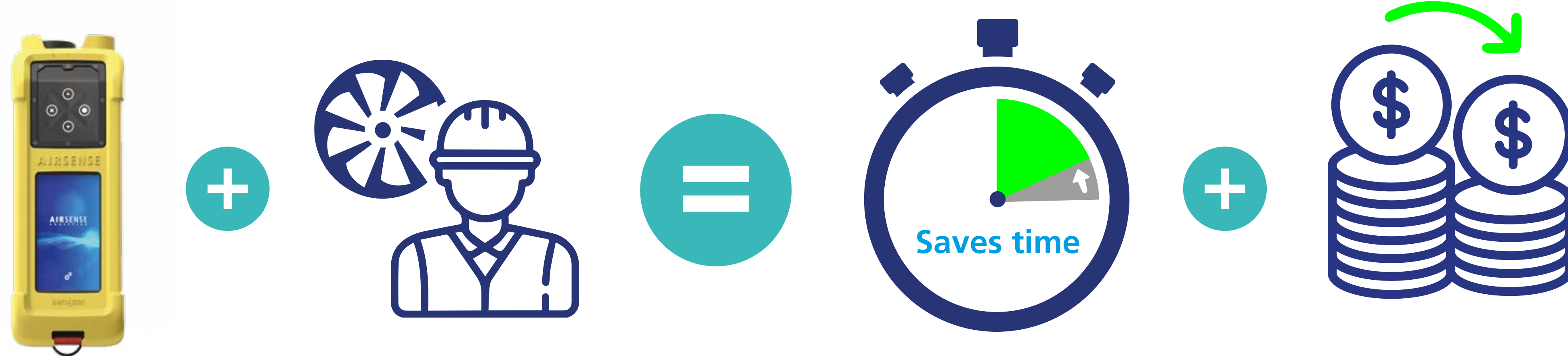
60+ hrs Storage of Measurements



www.airsense.aero

Reduce your AOG costs

The aerolyzer can help line maintenance crews and airlines in general to keep the downtime of an aircraft subject to a smell event as short as possible by identifying the root cause within seconds of measurement.



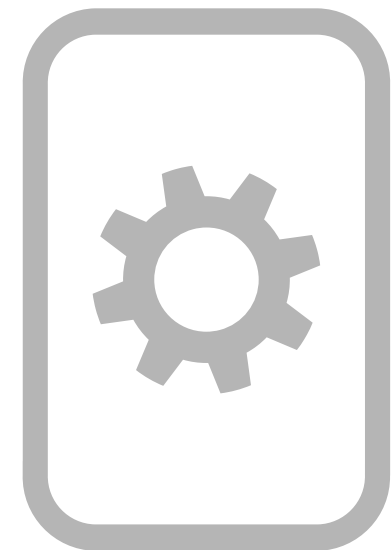
? What is your unscheduled AOG/maintenance costs per day in \$



- + *Distinguish in real time between Engine/ APU Oil, Deicing, VOC, Hydraulic Fluids & Phtalic Anhydride*
- + *Additional flight case for real-time event detection and recording.*
- + *Full compatible to transform the GSE tool into flight mode*



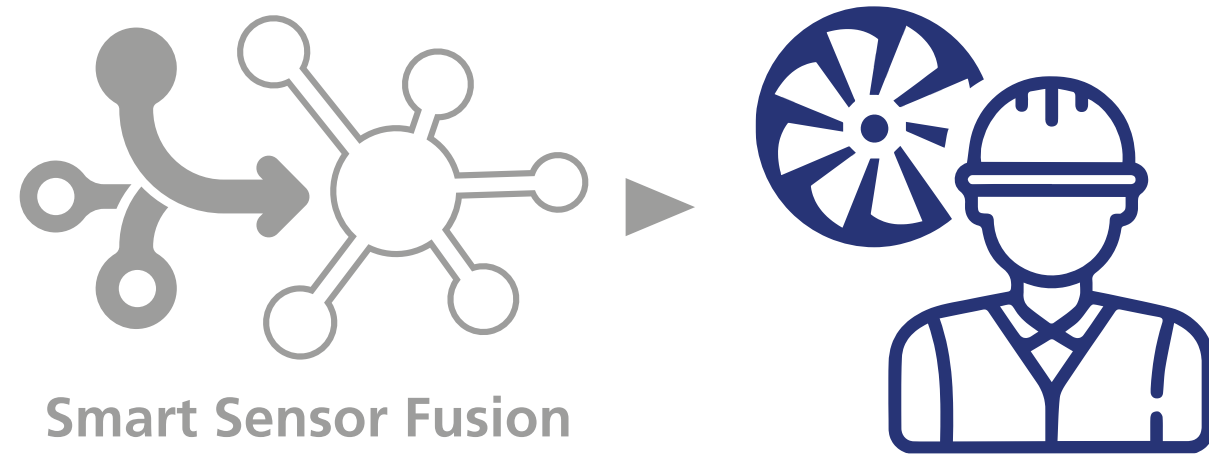
Your Tool. Your Measurements. Your Data!



Easy to use for Windows based PCs and Tablets.



Works offline. Live-Analysis of data. Detects SOF events root cause.



- 1.4kg/3lbs
+ Damping 275g
+ battery 440g
- Dimensions
L261 x W93/72
x H75 mm
- 30°C ... 50°C
Operating
temperature
range
- 35°C ... 70°C
storing
temperature
range
- 4GB
Internal Data
Storage
- 60+
hours of
measurement
storage



Target Substances

Normal Mode
Advanced Mode



The following target substances can be detected in **Normal** and **Advanced GSE mode**:

Intensity (Bars)	Substance (group)	Oil	Hydraulic fluid	Deicing fluid	T-VOC	Phthalic anhydride
	Reference substance	N/A	HyJet V	Propylene glycol	Isobutylene	Phthalic anhydride
	Unit	Odor unit (OU)	mg/m ³	ppbv	mg/m ³	ppbv
Low	1 / 5	≥1 to <2	≥0.3 to <0.7	≥100 to <200	≥4 to <6	≥20 to <60
Medium	2 / 5	≥2 to <3	≥0.7 to <1.1	≥200 to <300	≥6 to <8	≥60 to <100
Moderately high	3 / 5	≥3 to <4	≥1.1 to <1.5	≥300 to <400	≥8 to <10	≥100 to <140
High	4 / 5	≥4 to <5	≥1.5 to <1.9	≥400 to <500	≥10 to <12	≥140 to <180
Very high	5 / 5	≥5	≥1.9	≥500	≥12	≥180

DISCLAIMER:

The results displayed on the tool are semiquantitative indications. They strongly depend on the environmental measuring conditions like temperature, humidity and pressure during measurement. The tool does not substitute accredited laboratory examinations.

AIRSENSE supplier guarantee

German made Quality

> AIRSENSE AS A SUPPLIER

- ✓ National value chain and international logistics
- ✓ AIRSENSE provides after sales support worldwide International tool service
- ✓ Measurement interpretation service
- ✓ Individual solutions – ask us!

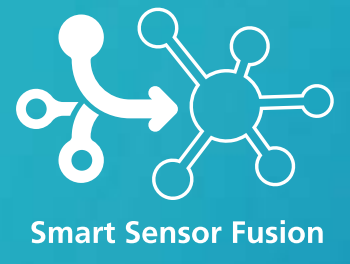


www.airsense.aero



Made in Germany

AIRSENSE Analytics GmbH
Hagenower Straße 73 · Germany · 19061 Schwerin
Phone +49 (0) 385 3993280 · Fax +49 (0) 385 3993281
info@airsense.com



Aviation
Industry

aero
by AIRSENSE Analytics®



Paul Plüschke
Head of Business Unit
Aviation

www.airsense.aero

