

ACOUSTIC ARROW

3D ACOUSTIC VECTOR
SENSOR



DATASHEET

MAY 2026



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ACOUSTIC ARROW

The Acoustic Arrow is a true acoustic vector sensor that hears all around, 360 degrees, and up into the sky.

By design, because of the three orthogonally placed Microflown sensors inside, the Acoustic Arrow can point at a 3D sound source.

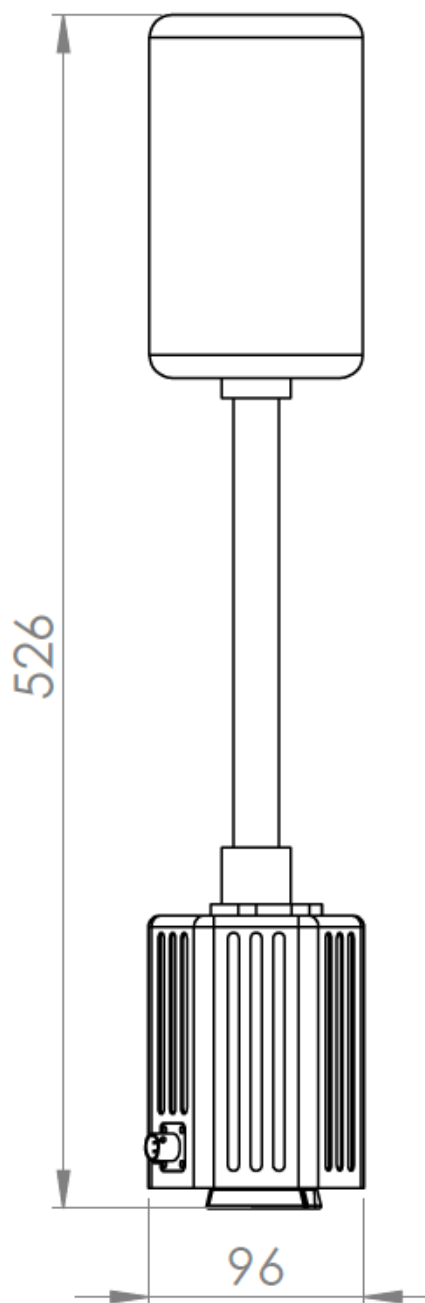
The Acoustic Arrow contains:

- Three orthogonally placed acoustic particle velocity sensors (Microflowns)
- One sound pressure transducer (microphone)
- An open-porous, polymer housing
- An integrated mounting interface for pole-based installation

As the Microflown sensor itself is sensitive to low frequencies, directionality can also be obtained at these low frequencies, without a lower-limit frequency cut-off point.

In order to avoid the influence of acoustic ground reflections, it is recommended to install the Acoustic Arrow at least 40 cm above the terrain level.

Electrical and data interfaces are routed through a ruggedized, environmentally sealed AVISABUS connector.



MECHANICAL

Diameter housing	7 cm
Length housing	30 cm
Total height	40 cm
Weight	1 kg
Color	Black
Material 1	Aluminium
Material 2	Carbon fibre

CONNECTIONS

Port 1	AVISABUS input (4-pin), environmentally sealed
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NSN

NATO STOCK NUMBER

6350-17-131-6882

ELECTRICAL

Average Power consumption ACTIVE	10 W
Average Power consumption STANDBY	3 W
Input voltage MIN	10,8 V
Input voltage TYP	12 V
Input voltage MAX	24 V

ENVIRONMENTAL

Operating Temperature MIN	- 30°
Operating Temperature TYP	10°
Operating Temperature MAX	50°
Storage Temperature MIN	0°
Storage Temperature TYP	10°
Storage Temperature MAX	50°

SIMPLIFIED SCHEMATIC

