

ROBOTIC ADAPTER FOR PU PROBES



PRODUCT DATA



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ROBOTIC ADAPTER

FOR PU PROBES

RELIABLE MOUNTING FOR ROBOTIC ACOUSTIC MEASUREMENTS

The Robotic Adapter is a dedicated accessory designed to integrate Microflow PU probes with Universal Robots (UR) platforms. It provides a rigid and precise mounting solution, ensuring that the sensor's position and orientation remain fixed during automated measurements. Thanks to its quick click-in connection, the adapter allows for easy probe handling while minimizing setup time.

By guaranteeing stable alignment and repeatability, the adapter supports accurate robotic scanning in both research and industrial environments. Whether applied in automated noise source identification or large-scale acoustic mapping, it enables the robot to consistently follow defined scanning paths with the required precision.

COMPONENT OVERVIEW

The Robotic Adapter Set consists of two integrated parts, each fulfilling a specific role in ensuring accurate and repeatable robotic acoustic measurements:

Stainless Steel Adapter – 3D-printed stainless steel main body that mounts the PU probe to the UR flange. Provides rigidity, durability, and fixed orientation with a quick click-in connection.

PA12 GF Spacer – lightweight glass-filled nylon element that acts as an alignment spacer. Offers dimensional stability, thermal resistance, and consistent positioning support.

AT A GLANCE

- Custom-designed adapter set for PU probes on Universal Robots
- 3D-printed stainless steel main body (~1240 g)
- Future lightweight PA12 GF plastic spacer for alignment and modularity
- Fixed orientation ensures repeatable measurements
- Quick click-in mechanism for easy probe exchange
- Designed for durability and dimensional stability
- Manufactured using advanced additive manufacturing technologies

TYPICAL APPLICATIONS

- Automated acoustic scanning with UR robots
- Noise source identification in complex structures
- Acoustic quality control in production environments
- Repeatable measurement campaigns in R&D
- Large-scale sound mapping of surfaces and curved geometries

SPECIFICATIONS

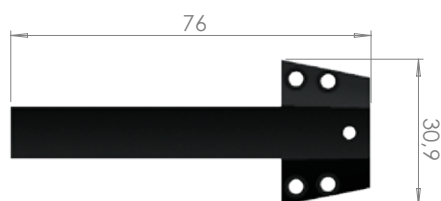


PHYSICAL DIMENSIONS

Parameter	Main Component	Mounting Insert
Diameter	63mm	-
Length	146,5mm	76mm
Width	-	30,9mm
Depth	-	26mm

MECHANICAL

Parameter	Main Component	Mounting Insert
Material	Stainless steel (3D printed)	PA12 GF (glass-filled nylon)
Weight (total)		1240g
Mounting	UR flange interface	7 Pin LEMO cable
Fixatoin	4× M6×25 mm socket-head cap screws (DIN 912)	4x M2.5*7
Probe connection	Quick click-in mechanism	-



Dimensions in:
mm

