

# PU REGULAR

## GEN 2

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## PRODUCT DATA



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# PU REGULAR GEN 2

## 1/2" PU REGULAR, A MODERN SOUND INTENSITY PROBE



### THOROUGH SOUND FIELD ANALYSIS WITH HIGH SPATIAL RESOLUTION

The PU Regular Gen2 represents state-of-the-art technology when it comes to PU probes. Designed for durability, packaging the unique sensing technology in a robust probe housing. The Microflown PU probe is well-known for being the world's first acoustic probe capable of measuring sound pressure and particle velocity directly and physically at the same position. Driven by innovation, a leap in performance was achieved, by literally reaching higher levels, with the highest dynamic range ever to be accomplished in a PU probe.

We know the Repeatability of your measurement matters, that's why our Gen2 probe is designed to be compatible with a sound calibrator for field calibration. To ensure your Scan&Paint 2D measurements are "on track", two IR LEDs have been integrated, that enable live position tracking of the probe. Give your product an edge by unleashing the complete potential of a PU probe to quantify, visualize and localize your sound sources even in demanding testing environments.

### THE PU REGULAR GEN2 AT A GLANCE

- Broadband sensing | 20Hz up to 14kHz
- Enable real-time tracking because of integrated IR LEDs.
- Ensure measurement repeatability; compatible Class 1 Microflown Sound Calibrator for field calibration
- Sound pressure and the one-dimensional component of particle velocity vector
- Robust built, with an embedded metal mesh for wind and environment protection
- Low susceptibility to background noise in the environment
- Low susceptibility to high pressure over intensity ratio (p/I index)

### TYPICAL APPLICATIONS

- Your preferred probe for Scan&Paint 2D
- Noise Source Identification
- Particle velocity measurements
- Sound Intensity measurements
- Sound Power measurements
- Direct listening to particle velocity

# SPECIFICATIONS

## SENSOR PERFORMANCE

Parameter	Sound Pressure   Particle Velocity	Unit
Sensitivity	28   26	mV/Pa   V/(m/s)
Frequency Range (±1 dB)	80 - 6000   50 - 12000	Hz
Frequency Range (±2 dB)	50 - 14000   30 - 14000	Hz
Frequency Range (±4 dB)	20 - 14500   20 - 15000	Hz
Maximum Level @ 1kHz	131   126	dB
Noise floor (20 Hz - 2 kHz)	31   26	dB(A)
Noise floor (20 Hz - 10 kHz)	37   42	dB(A)
Noise floor (20 Hz - 15 kHz)	37   46	dB(A)

## ENVIRONMENTAL

Parameter	Sound Pressure   Particle Velocity	Unit
Temperature range	-20 to 80	°C
Temperature Coefficient	0.015   0.006	dB/°C
Influence of Humidity (30 - 90%)	0.001   0.06	dB/%RH
Static Pressure Coefficient	< 0.5	dB/kPA
Maximum airflow	1.3	m/s

## PHYSICAL DIMENSIONS



Parameter		Unit
Connector type	7 pin	LEMO
Weight	29	g
Diameter	12.7 (1/2)	mm (inch)
Length	122	mm

# SPECIFICATIONS



## PHYSICAL DIMENSIONS



Dimensions in:	am. proj.	Scale:	 reference dimensions
mm		1:1	Tolerance unless otherwise stated according: ISO 2768-

