

PU MINI

SOUND INTENSITY PROBE



PRODUCT DATA



Microflow Technologies
Charting sound fields



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PU MINI

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1/2INCH SOUND INTENSITY PROBE

THOROUGH SOUND FIELD ANALYSIS WITH HIGH SPATIAL RESOLUTION

The PU Mini, a miniaturized PU designed for all your diverse testing requirements and needs. The PU concepts stands for measuring sound pressure and particle velocity physically at the same point. The compact probe design of the PU mini probe makes the probe very well suited to use in all sorts of array configurations, be it for noise source identification or sound power

measurements. Scattered or flexible arrays for accurate sound quantifications, ranking and contributions; hand held arrays for high spatial resolution mapping. One size fits fits all when it comes to all of this; the PU mini. Give your product an edge by unleashing the complete potential of a PU probe to visualize & localize your sound sources.

THE PU MINI AT A GLANCE

- Covers a relevant and broad range of 20 Hz - 10kHz
- Sound pressure and the one-dimensional component of particle velocity vector
- Compact design with an optimized package for acoustic gain
- Sound intensity/power estimations directly from the same measurement
- Less dependent on environmental conditions

TYPICAL APPLICATIONS

- Noise source identification & mapping
- Sound ranking
- Sensor array applications
- Range of acoustic quantities: Sound Intensity, Sound Power, PVL measurements
- (In-situ) absorption

SPECIFICATIONS

SENSOR PERFORMANCE

Parameter	Sound Pressure Particle Velocity	Unit
Sensitivity	65 30	mV/Pa V/(m/s)
Frequency Range (± 1 dB)	40 - 8,000	Hz
Frequency Range (± 2 dB)	20 - 10,000	Hz
Maximum level	112 130	dB
Noise floor (20-2k Hz)	22 27	dB(A)
Noise floor (20-10k Hz)	27 43	dB(A)

ENVIRONMENTAL

Parameter	Sound Pressure Particle Velocity	Unit
Temperature Range	-20 to 63	$^{\circ}\text{C}$
Temperature Coefficient	0.067 0.006	dB/ $^{\circ}\text{C}$
Influence of Humidity (30 - 90%)	0.05 0.06	dB/%RH
Static Pressure Coefficient	< 0.5	dB/kPa
Maximum airflow	1.5	m/s

PHYSICAL DIMENSIONS

Parameter	Value	Unit
Connector type	4 pin	LEMO
Weight	18.8	g
Diameter	12.7 1/2	mm inch
Length	40.7	mm

SPECIFICATIONS

PHYSICAL DIMENSIONS

