PU VOYAGER

1/2” PU VOYAGER, THE MOST ROBUST MICROFLOWN PROBE

PRODUCT DATA

Microflown Technologies
Charting sound fields

+31 88 001 0800

INFO@MICROFLOWN.COM

PU VOYAGER
1/2” PU PROBE

THOROUGH SOUND FIELD ANALYSIS WITH HIGH SPATIAL RESOLUTION

The PU Voyager is the latest addition to the Microflown sensor family. The probe comprises a sound pressure microphone and particle velocity sensor, physically at the same point in a compact anodized aluminum body. The sensors are mechanically protected with a robust housing which includes an embedded metal mesh.

This probe is designed to help you evaluate and troubleshoot all kind of noise problems while coping with the most demanding measuring conditions. Ensure good data quality by using a standard sound calibrator to perform a field calibration. The field calibration is a fast and simple procedure to check that the sensor is working correctly.

THE PU VOYAGER AT A GLANCE

- Covers a relevant and broad range of 20 Hz - 8kHz
- Sound pressure and the one-dimensional component of particle velocity vector
- Robust design, with an embedded metal mesh for wind and environment protection
- Sound intensity/power estimations, low susceptibility to P/I (pressure over intensity)
- Less dependent on environmental conditions
- Compatible with a standard sound calibrator for field calibration

TYPICAL APPLICATIONS

- Noise source identification
- Squeak & Rattle noise
- Troubleshooting
- Quality control and ensurance
- Range of acoustic quantities e.g. PVL and SPL measurements

SPECIFICATIONS

SENSOR PERFORMANCE

Parameter	Sound Pressure | Particle Velocity	Unit
Sensitivity	24 | 9.5	mV/Pa | V/(m/s)
Frequency Range (±1 dB)	100 - 7,000	Hz
Frequency Range (±2 dB)	20 - 8,000	Hz
Maximum level	130	dB
Noise floor (20 - 2,000 Hz)	29 | 35	dB(A)
Noise floor (20 - 10,000 Hz)	33 | 45	dB(A)

ENVIRONTMENTAL

Parameter	Sound Pressure | Particle Velocity	Unit
Temperature Range	-20 to 85	°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	1.5	m/s

PHYSICAL DIMENSIONS

Parameter	Value	Unit
Connector type	7 pin	LEMO
Weight	21.5	g
Diameter	12.7 | 1/2	mm | inch
Length	97.5	mm

SPECIFICATIONS

PHYSICAL DIMENSIONS