

ACOUSTIC TRANSDUCERS

CUSTOMIZABLE

- Free-field and pressure-field frequency response characteristics to meet measurement requirements for different sound fields
- Wide dynamic range enables measurements from low to high sound pressure level impact noise
- Microphone sizes: Ø23.77mm (1"), Ø12.7mm (1/2"), Ø6.35mm (1/4")
- Preamplifier features high input impedance and low distortion, with multiple output connectors available including SMB, TNC, BNC, LEMO



0033-MP06



0033-PA01



0033-PA02



0033-PA03



0033-PA04



0033-PA05



0033-PA06



0033-MP01-PA02



0033-MP01-PA03



0033-MP06-PA03



0033-MP12-PA02



0033-MP12-PA03

SPECIFICATION OF MICROPHONE CARTRIDGE

Code	Outer diameter (mm)	Field type	Nominal sensitivity (mV/Pa)	Frequency range (Hz)	Dynamic range (dBA)	Polarization voltage (V)	Operating temperature (°C)	Application
0033-MP01	Ø23.77 (1")	free-field	100	10~16k	9~137	0	-20~80	low SPL measurement
0033-MP02	Ø12.7 (1/2")	free-field	6.5	20~12.5k	28~150		-10~60	class 2 sound level meter
0033-MP03		free-field	26	20~12.5k	20~148		-30~80	
0033-MP04		pressure-field	28.1	10~16k	21~146		-30~80	outdoor monitoring
0033-MP05		free-field	15.8	6.3~31.5k	27~155		-20~80	class 1 sound level meter, DAQ
0033-MP06		free-field	50	6.3~20k	17~144		-20~80	
0033-MP07		free-field	36	6.3~20k	19~147		-20~80	
0033-MP08		free-field	36	6.3~25k	19~147		-20~80	
0033-MP09		free-field	42	6.3~20k	18~145		-20~80	
0033-MP10		free-field	12.6	5~40k	22~162	200	-30~100	working standard microphone
0033-MP11		pressure-field	15.8	5~20k	21~160		-30~100	
0033-MP12	Ø6.35 (1/4")	free-field	4	10~25k	38~166	0	-20~80	high SPL measurement
0033-MP13		pressure-field	0.56	10~20k	57~175		-20~80	
0033-MP14		free-field	4	10~80k	40~160		-20~80	wideband measurement

SPECIFICATION OF MICROPHONE PREAMPLIFIER

Code	0033-PA01	0033-PA02	0033-PA03	0033-PA04	0033-PA05	0033-PA06
Dimension	Ø12.7mm (1/2")				Ø6.5mm (1/4")	
Frequency response	20Hz~20kHz±0.1dB, 10Hz~100kHz±1.0dB			20Hz~50kHz±0.05dB, 10Hz~100kHz±0.5dB	2Hz~100kHz±0.2dB	
Input impedance/ capacitance	≥10GΩ/≤1pF			≥10GΩ/≤0.5pF	≥15GΩ/≤0.4pF	
Harmonic distortion	<0.1% (1V/1kHz)					
Output voltage	≥5Vrms (28V supply)			≥10Vrms (60V supply)	≥5Vrms (28V supply)	
Output impedance	≤50Ω			≤30Ω		
Power supply	ICP power supply, excitation current: 2mA~10mA, supply voltage: 18VDC~28VDC			±12V~±30V or 24V~60V	ICP power supply, excitation current: 2mA~10mA, supply voltage: 18VDC~28VDC	
Polarization voltage	0V			0V, 200V	0V	
TEDS	not included	included	included	included	included	included
Output connector	SMB	TNC	BNC	LEMO	BNC (cable length1.5m)	SMB
Operating temperature	-20℃~60℃					

SPECIFICATION OF MICROPHONE SET

Code	Outer diameter (mm)	Nominal sensitivity (mV/Pa)	Power supply	Frequency range (Hz)	Field type	Dynamic range (dBA)	Connector	TEDS
0033-MP01-PA02	Ø23.77 (1")	100	IEPE	10~16k	free-field	9~137	TNC	included (IEEE1451)
0033-MP01-PA03		100	IEPE	10~16k	free-field	9~137	BNC	included (IEEE1451)
0033-MP03-PA01	Ø12.7 (1/2")	26	IEPE	20~12.5k	free-field	20~148	SMB	not included
0033-MP06-PA01		50	IEPE	6.3~20k	free-field	17~144	SMB	not included
0033-MP06-PA03		50	IEPE	6.3~20k	free-field	17~144	BNC	included (IEEE1451)
0033-MP07-PA01		36	IEPE	6.3~20k	free-field	19~147	SMB	not included
0033-MP07-PA03		36	IEPE	6.3~20k	free-field	19~147	BNC	included (IEEE1451)
0033-MP10-PA04		12.6	external polarization voltage	5~40k	free-field	22~162	LEMO	included (IEEE1451)
0033-MP11-PA04		15.8		5~20k	pressure-field	21~160	LEMO	included (IEEE1451)
0033-MP12-PA02		4	IEPE	10~25k	free-field	38~166	TNC	included (IEEE1451)
0033-MP12-PA03	Ø6.35 (1/4")	4	IEPE	10~25k	free-field	38~166	BNC	included (IEEE1451)
0033-MP12-PA05		4	IEPE	10~25k	free-field	38~166	BNC (cable length 1.5m)	included (IEEE1451)
0033-MP12-PA06		4	IEPE	10~25k	free-field	38~166	SMB	included (IEEE1451)
0033-MP13-PA05		0.56	IEPE	10~20k	pressure-field	57~175	BNC (cable length 1.5m)	included (IEEE1451)
0033-MP13-PA06		0.56	IEPE	10~20k	pressure-field	57~175	SMB	included (IEEE1451)
0033-MP14-PA05		4	IEPE	10~80k	free-field	40~160	BNC (cable length 1.5m)	included (IEEE1451)
0033-MP14-PA06		4	IEPE	10~80k	free-field	40~160	SMB	included (IEEE1451)