

Model Number 378A21	ICP MICROPHONE SYSTEM	Revision: A ECN #: 44801
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Nominal Microphone Diameter	1/2"	1/2"	
Frequency Response Characteristic	Random Incidence	Random Incidence	
Sensitivity	12.6 mV/Pa	12.6 mV/Pa	[3]
Sensitivity(± 2 dB)	-38 dB re 1 V/Pa	-38 dB re 1 V/Pa	[3]
Frequency Range(± 2 dB)	4 to 25,000 Hz	4 to 25,000 Hz	
Lower Limiting Frequency(-3 dB)	1.0 to 2.4 Hz	1.0 to 2.4 Hz	
Inherent Noise(Linear)	26 dB re 20 µPa	26 dB re 20 µPa	
Inherent Noise	22 dB(A) re 20 µPa	22 dB(A) re 20 µPa	[2]
Dynamic Range(3% Distortion Limit)	>147 dB re 20 µPa	>147 dB re 20 µPa	
TEDS Compliant	Yes	Yes	[4]
Environmental			
Temperature Range(Operating)	-40 to +176 °F	-40 to +80 °C	
Temperature Coefficient of Sensitivity(+14 to +158°F (-10 to +70°C))	0.003 dB/°F	0.006 dB/°C	[2][3]
Static Pressure Coefficient	-0.007 dB/kPa	-0.007 dB/kPa	[2][3]
Humidity Coefficient of Sensitivity(0 to 100%, non-condensing)	0.002 dB/%RH	0.002 dB/%RH	[3][2]
Influence of Axial Vibration(0.1g (1 m/s ²))	67 dB re 20 µPa	67 dB re 20 µPa	[2]
Electrical			
Polarization Voltage	0 V	0 V	[1]
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Bias Voltage	10 to 14 VDC	10 to 14 VDC	
Maximum Output Voltage	± 7 Vpk	± 7 Vpk	
Output Impedance	<50 Ohm	<50 Ohm	
Physical			
Housing Material	Stainless Alloy	Stainless Alloy	
Venting	Rear	Rear	[5]
Electrical Connector	BNC Jack	BNC Jack	
Mounting Thread(Grid)	0.5 - 60 UNS	0.5 - 60 UNS	
Size (Diameter x Height)(with grid)	0.52 in x 3.47 in	13.2 mm x 88.3 mm	
Size (Diameter x Height)(without grid)	0.50 in x 3.46 in	12.7 x 87.8 mm	
Weight	1.59 oz	45 gm	[2]

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4
 Optional Accessory : Model ACS-63 Calibration (with TEDS) of Precision Condenser Microphones and Preamplifiers together (mated pair). (1) replaces Model ACS-42

NOTES:

[1]Prepolarized
 [2]Typical.
 [3]re 250 Hz
 [4]TEDS Capable Digital Memory and Communication, compliant with IEEE P1451.4
 [5]Venting through Preamp.

SUPPLIED ACCESSORIES:

Model ACS-42 Calibration of microphone with preamplifier (1)

Entered: LK	Engineer: MT	Sales: MV	Approved: MT	Spec Number:
Date: 12/3/2015	Date: 12/3/2015	Date: 12/3/2015	Date: 12/3/2015	62323



All specifications are at room temperature unless otherwise specified.
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