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Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

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Dynamic Pressure Sensors

Model P-308-C

The Columbia Model P-308-C Piezoelectric Microphone is designed to measure a wide range of varying high intensity sound pressure levels from 110 dB to 190 dB. Incorporating a unique "opposing" seismic system design, the unit is effectively insensitive to external vibration environments. This microphone offers unusually high charge sensitivity, wide frequency response and excellent linearity.

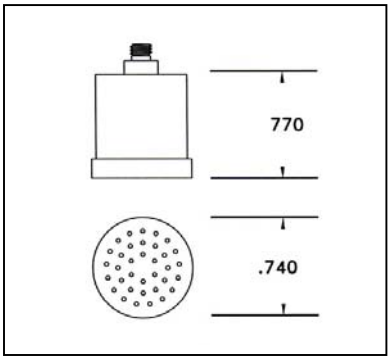
The Model P-308-C features a compact design weighing less than 20 grams. The advanced stainless steel case design assures exceptional mechanical isolation and rugged construction for use under the most severe environmental conditions. ***Consult the factory for customized versions of this sensor.***

- **High Intensity Acoustic Microphone**
- **Operational Range 100 To 190 dB**
- **Vibration Compensated**

Specifications

Transfer / Electrical	P-308-C
Charge Sensitivity	4 pC rms Min.
Pressure Range	100 To 190 dB
Pressure Overload (without damage)	30 psi
Frequency Linearity	+/-2 dB, 5 To 6,000 Hz +/-3 dB. 6,000 To 10,000 Hz
Resonant Frequency	27 KHz Min.
Amplitude Linearity	+/-0.5 dB of Full Scale SPL over Dynamic Range
Capacitance	3600 pF (Nominal)
Output Resistance	1 x 10^4 Megohms
Grounding	Isolated
Environmental	
Temperature Range	-100 To +300 Deg F (-73 To +150 Deg C)
Humidity[1]	0 To 100% R.H.
Vibration Limit	100 g Max.
Shock Limit	100 g Max.
Physical	
Size	0.740 In. Dia. x 0.770 In. H (19.0 mm Dia x 19.6 mm H)
Weight	0.67 Oz (19 Gm)
Material Body & Diaphragm	Type 316 Stainless Steel
Electrical Interface	#10-32 Coaxial Connector
Mounting	Clamps Supplied for Rigid Mounting





NOTES:
[1] With Connector Mated or Protected, Unit is Hermetically Sealed.

Accessories Supplied:
(1) Cable Assembly, LNHT-3 Ft.
(1) Hardwood Storage Box
(1) Standard Calibration Data.

Columbia Research Laboratories, Inc. 1925 Mac Dade Blvd. Woodlyn, PA 19094 USA
Phone: 1.800.813.8471 / Fax: 610.872.3882 / email: sales@columbiaresearchlab.com

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