

MODELS 106C10 AND 106C20

DYNAMIC ICP® PRESSURE SENSORS

## Specifications

Performance	English	SI
Sensitivity (±20%)	300 mV/psi	43.5 mV/kPa
Dynamic Measurement Range	8.3 psi	57.2 kPa
Broadband Resolution	0.0001 psi	0.00069 kPa
Maximum Dynamic Pressure	100 psi	690 kPa
Maximum Combined Pressure	200 psi	1380 kPa
Resonant Frequency	≥ 60 kHz	≥ 60 kHz
Rise Time	≤ 9 μsec	≤ 9 μsec
Low Frequency Response (-5%)	0.05 Hz	0.05 Hz
Discharge Time Constant	≥ 10 sec	≥ 10 sec
Non-Linearity	≤ 1% FS	≤ 1% FS
Environmental		
Acceleration Sensitivity	≤ 0.05 psi/g	≤ 0.035 kPa/m/s <sup>2</sup>
Temperature Range	-65 to +250 °F	-54 to +121 °C
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C
Maximum Shock	2000 g pk	19,600 m/s <sup>2</sup> pk
Electrical		
Output Polarity (positive pressure)	Positive	Positive
Excitation Voltage	11 to 30 VDC	11 to 30 VDC
Excitation Constant Current	2 to 20 mA	2 to 20 mA
Output Impedance	≤ 100 ohm	≤ 100 ohm
Output Bias Voltage	3 to 8 VDC	3 to 8 VDC
Mechanical		
Size (diaphragm diameter × overall length)		
106C10	0.435 × 7.58 in	11.05 × 192.5 mm
106C20	0.435 × 13.25 in	11.05 × 336.5 mm
Weight		
106C10	6.6 oz	187 gm
106C20	8.2 oz	232 gm
Installation Thread (of supplied adaptor)	1/2-14 NPT	1/2-14 NPT
Sensing Element	Quartz	Quartz
Material (of wetted parts)	316L SS	316L SS
Sealing (welded)	Hermetic	Hermetic
Electrical Connector	2-pin MIL-C-5015	2-pin MIL-C-5015

**CE** These products conform to applicable European Directives for CE marking.

