

**KISTLER**

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## Pressure Sensors

**A Product Selection  
Guide for General  
Purpose Piezoelectric  
Measurement  
Equipment**



# Products for General Pressure Measurement

## Overview: Piezoelectric Pressure Sensors

Sensor	Type Dimensions	Technical Data						Special Characteristics
		Pressure Range [bar]		Operating Temperature Range [°C]		Sensitivity [pC/bar]	Natural Frequency [kHz]	
		min.	max.	min.	max.			
	<b>601A</b> ø5,5 mm L = 15,0 mm	0	250	-196	200	16	150	- Miniature size
	<b>601H</b> ø5,5 mm L = 15,0 mm	0	1000	-196	200	16	150	- Miniature size - High pressure
	<b>6001</b> ø5,5 mm L = 14,8 mm	0	250	-196	350	15	150	- Miniature size - High operating temperature up to 350 °C
	<b>6005</b> ø5,5 mm L = 15,6 mm	0	1000	-196	200	10	140	- Miniature size - Reinforced membrane giving an extended sensor life span
	<b>6031</b> ø5,5 mm L = 15,0 mm	0	250	-196	200	14	160	- Miniature size - Acceleration compensated
	<b>603B</b> ø5,5 mm L = 11,8 mm	0	200	-196	200	5	400	- Miniature size - High natural frequency of 400 kHz - Acceleration compensated
	<b>701A</b> ø9,5 mm L = 26,8 mm	0	250	-150	200	80	70	- High sensitivity
	<b>7001</b> ø9,5 mm L = 26,8 mm	0	250	-196	350	80	70	- High sensitivity - High operating temperature up to 350 °C
	<b>7005</b> ø9,5 mm L = 26,8 mm	0	600	-196	200	50	70	- High sensitivity - Reinforced membrane giving an extended sensor life span
	<b>7031</b> ø9,5 mm L = 26,8 mm	0	250	-150	200	55	80	- High sensitivity - Acceleration compensated
	<b>7261A</b> ø35,0 mm L = 55,8 mm	-1	10	-40	240	2 200	13	- Low pressure - Very high sensitivity of 2 200 pC/bar

## Accessories for Piezoelectric Pressure Sensors

### Adapters

When space isn't a premium, the sensor can be fitted into a mounting adapter. Internally these provide the required level of mounting accuracy, whilst externally they can be fitted into a much less precisely toleranced mounting bore.



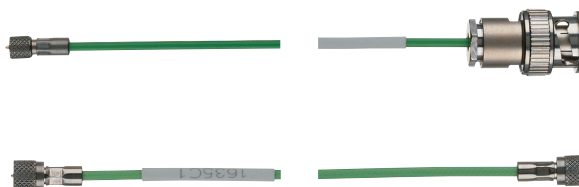
### Mounting Nuts and Connecting Nipples

When the mounting location space is restricted, the sensor can be located in an appropriately dimensioned mounting bore, and then held in place with a mounting nut, or connecting nipple on to which the cable is then attached.



### Cables

Piezoelectric sensors generate a tiny charge, in the order of pico Coulombs. For this reason only high impedance cables can be used to connect the sensor to a charge amplifier.



### Electronics

Kistler provides a wide range of signal conditioning charge amplifiers. These convert the high impedance charge signal produced by a piezoelectric sensor into a  $\pm 10$  V analogue signal, which is compatible with standard DAQ and readout instrumentation.



### Calibration

Kistler provides calibration and test services for all our sensors and electronics. Additionally, a variety of calibration equipment is available for customers wishing to conduct their own sensor calibrations.



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