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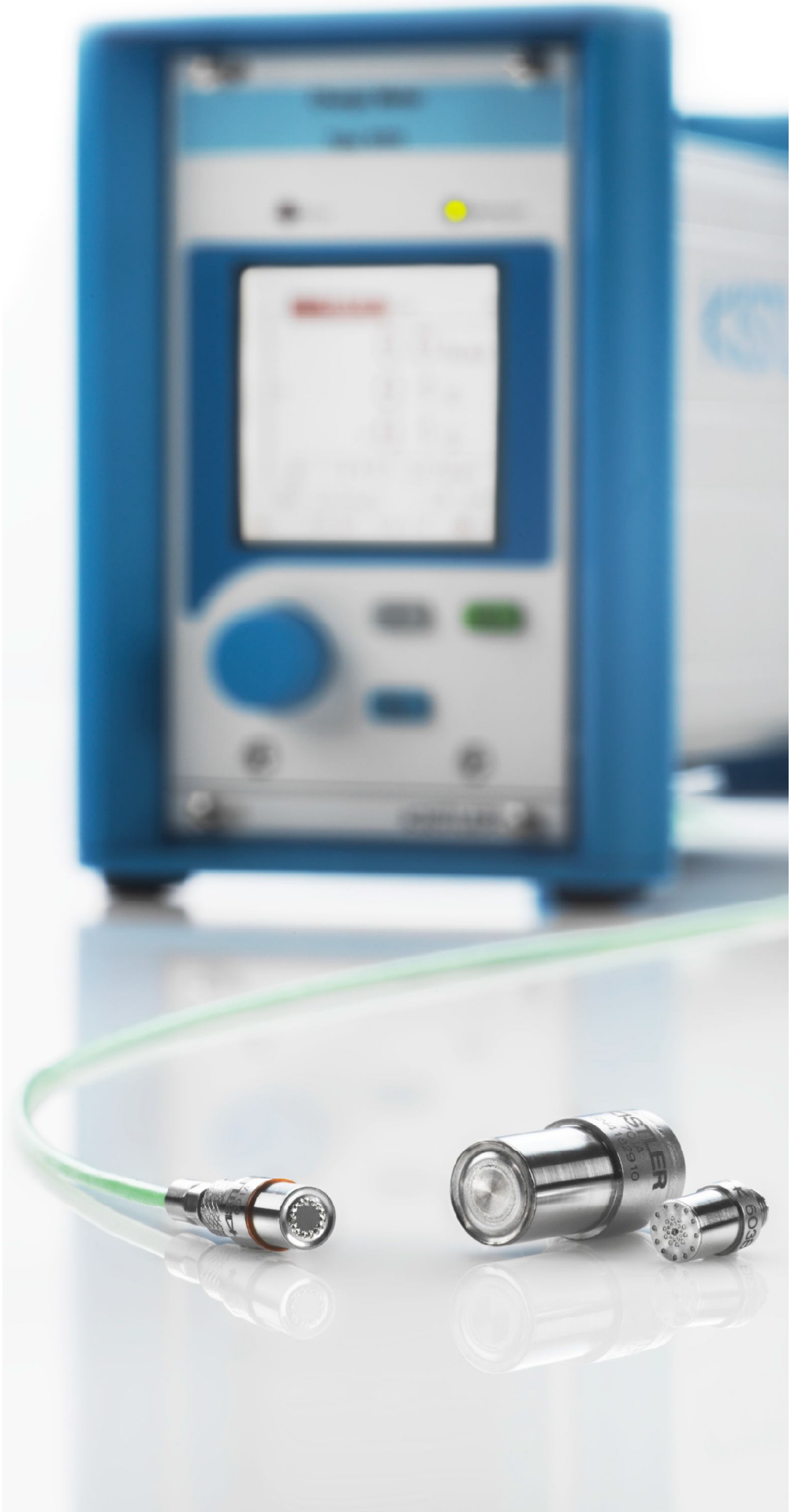

Pressure Sensors

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.			
	**601A** ø5,5 mm L = 15,0 mm	0	250	–196	200	16	150	– Miniature size
	**601H** ø5,5 mm L = 15,0 mm	0	1 000	–196	200	16	150	– Miniature size – High pressure
	**6001** ø5,5 mm L = 14,8 mm	0	250	–196	350	15	150	– Miniature size – High operating temperature up to 350 °C
	**6005** ø5,5 mm L = 15,6 mm	0	1 000	–196	200	10	140	– Miniature size – Reinforced membrane giving an extended sensor life span
	**6031** ø5,5 mm L = 15,0 mm	0	250	–196	200	14	160	– Miniature size – Acceleration compensated
	**603B** ø5,5 mm L = 11,8 mm	0	200	–196	200	5	400	– Miniature size – High natural frequency of 400 kHz – Acceleration compensated
	**701A** ø9,5 mm L = 26,8 mm	0	250	–150	200	80	70	– High sensitivity
	**7001** ø9,5 mm L = 26,8 mm	0	250	–196	350	80	70	– High sensitivity – High operating temperature up to 350 °C
	**7005** ø9,5 mm L = 26,8 mm	0	600	–196	200	50	70	– High sensitivity – Reinforced membrane giving an extended sensor life span
	**7031** ø9,5 mm L = 26,8 mm	0	250	–150	200	55	80	– High sensitivity – Acceleration compensated
	**7261A** 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 ±10 V analogue signal, which is compatible with standard DAQ and readout instrumentation.

Calibration

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