

Pressure Pulse Calibration

Pulse calibration for pressure sensors

Type 6959B
Type 6960A

Systems for the calibration of pressure sensors with short pressure pulses. Ideally suited to test sensors used in blast and pulsatile applications. Optimal for testing IEPE pressure sensors with short time constant.

- Short pressure pulses of 2 ...10 ms
- Suited for IEPE pressure sensors such as Type 6233B and 60xC
- Low mechanical noise
- Automated pressure application

Description

Predefined pressure pulses can be generated automatically and reliably to calibrate pressure sensors. The systems are designed to minimize mechanical oscillations to optimize the calibration capability.

The adapters are optimized for simultaneous and monotonous pressure pulses. De-airing the sensor adapter is highly efficient and ensures reproducible pressure pulses.

Application

The short pressure pulses are ideal to calibrate piezoelectric sensors and measuring chains with short time constants that cannot be accurately calibrated with slower loading procedures.

Furthermore, the systems are ideal to test pressure sensors used for the measurement of short pressure pulses and oscillations (e.g air blast).

Accessories

	Type/Mat. No.
Hydraulic fluid	1069A
Damping pad Shore 25	6959ZA25
Damping pad Shore 65	6959ZA65
LabAmp dynamic	5165A4KH00
Calibrate software	Z18906C-S0
Reference sensor 250 bar	601CAA
Reference sensor 1 000 bar	603CAA

Ordering key

Units under Test	Pressure range	Type
• 60xC	1.5 ... 250	6959B1
• 6233B	1.5 ... 70	6959B2
• 60xC & 6233BB	1.5 ... 250	6959B3
• 60xC	70 ... 1 000	6960A



Technical data

	Unit	Type 6959B	Type 6960A
Nom. Pressure range	bar	1.5 ... 250	70 ... 1 000
Nominal peak pressure Testing Type 60xC at 15 ... 35°C	bar	1.5 3.5 7 14 35 70 250	70 350 690 1 000
Nominal peak pressure Testing Type 6233B at 15 ... 35°C	bar	1.72 3.5 17.2 35 70	–
Pulse duration	ms	2 ... 10	2 ... 10

6959B_003-644e-07.23