

Acceleration Sensor AS28e-100g

Item number: 3207



The acceleration sensor is based on the strain gage technology.

The accelerometer sensor is characterized by small dimensions and a high resonance frequency.

The AS28 can be used, for static measurements from 0 Hz, for example for measuring building vibrations or vibrations on bridges and other constructions.

The temperature drift of the zero point noticed with a maximum of 0.2% / ° C, because semiconductor strain gages are used.

The input range of the measuring amplifier must be large enough. (when full range should be used) The output signal of the AS28 is approximately 10 mV / V at full measuring range. The measuring amplifier GSV-1, GSV-2 and GSV-3 are available with matching input sensitivities of ± 5 , ± 10 and ± 20 mV / V.

The variant AS28e includes integrated electronics.

The output is ± 2.00 volt for all sensors AS28e at full range.

The zero point is set at 2.5 volt.

The output signal of variant AS28 without electronic is within the range of 6 .. 15 mV / V and it is reported individually on a separate test protocol.

Technical Data

Basic Data Unit

Electrical Data Unit

Output resistance	100	Ohm
Insulation resistance	2	GOhm
Zero signal	15	%FS
Rated output	2	V/FS

Accuracy Data Unit

Accuracy class	1	
Relative linearity error	0.5	%FS
Temperature effect on zero signal	0.2	%FS/K
Temperature effect on characteristic value	0.1	%RD/K
Cross-sensitivity	1	%RD

Supply Unit

Environmental Data Unit

Rated temperature range from	-10	°C
Rated temperature range to	70	°C
Operating temperature range from	-10	°C
Operating temperature range to	86	°C
Environmental protection	IP66	

Abbreviation: RD: „Reading“; FS: „Full Scale“1) The exact sensitivity is indicated in the test report

Pin assignment

Channel	Symbol	Description	Wire color	PIN
	Ub	Supply voltage	red	
	GND	GND supply	black	
	Ua	Output signal	green	
	GND	GND output signal	white	