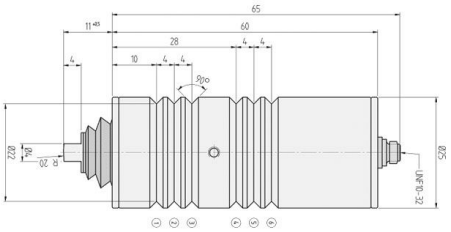
Probe Accelerometer

KST94C-4N

Properties

- Suited for automated vibration measurement, for instance in quality control
- Movable tip guided by air damped piston / cylinder system
- Linear frequency range by frictionless movement of the sensing element
- Constant tip pressure by spring suspension guarantees reproducible measuring results
- Low distortion
- Low sensitivity for environmental vibration
- Long life expectancy: over 10 million test cycles
- IP62 protection grade, oil resistant
- Probe tip electrically isolated from body



Piezo design	Shear design	
Output	IEPE	
Voltage sensitivity	100	mV/g
Sensitivity tolerance	5	%
Measurement range, pos./neg.	20	g
Transverse sensitivity	<5	%
Lower frequency limit (3 dB)	40	Hz
Upper frequency limit (3 dB)	3200	Hz
Upper frequency limit (10 %)	1900	Hz
Upper frequency limit (5 %)	1400	Hz
Resonant frequency	>6	kHz
Resonance amplitude	20	dB
Constant current supply	2 - 20	mA
Bias voltage at 4 mA	12 - 14	V
Output impedance	<150	Ω
Residual noise; wide band; RMS	<400 (0,5 - 20000 Hz)	µg
Noise density 10 Hz	15	µg/√Hz
Noise density 100 Hz	4	µg/√Hz
Operating temperature range	0 - 80	°C
Temperature coefficient of voltage sensitivity	-0,1	%/K
Max. stroke	5,5	mm
Recommended deflection	2 - 4	mm
Max. vibration displacement	1	mm
Spring stiffness	0,32	N/mm
Dynamic mass	9	g
Weight without cable	120	g
Case material	Stainless steel	
Connector direction	axial	
Connector	UNF10-32	
Mounting	Clamp collar Ø 25; M5x8 screw DIN 914 in 90° notch	
IP code	IP62	

AGT Absolute Gauge Technologies™

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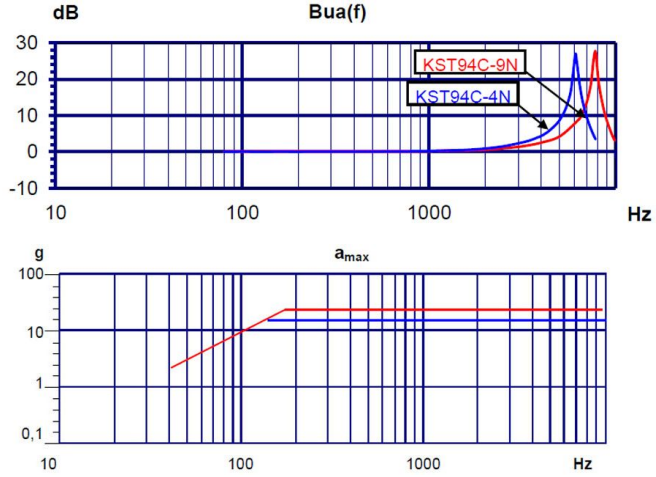
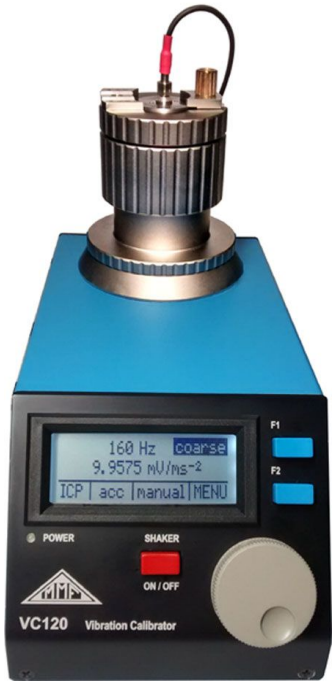
Typical Frequency Response



Connection Accessories

- 009-UNF-UNF-1,5: Low-noise cable; 1,5 m; UNF 10-32 to UNF 10-32; 120 °C; D2,1
- 009-UNF-BNC-1,5: Low-noise cable; 1,5 m; UNF 10-32 to BNC; 120 °C; D2,1
- 010-UNF-BNC-5: Low-noise cable; 5 m; UNF 10-32 to BNC; 120 °C; D2,1
- 010-UNF-BNC-10: Low-noise cable; 10 m; UNF 10-32 to BNC; 120 °C; D2,1
- 017: Plug adapter UNF10-32 (female) to BNC (male)

Notice: We offer the optional adapter KST94CA for the vibration calibrator VC120.
It is suited for calibrations between 100 and 10000 Hz with defined coupling conditions and adjustable probe position.



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