

Multi-Channel Vibration Measurement Vibration Meter Unit Model **UV-05A**



- 30 mm width slim case
- Pulling-down panel making setting of accelerometer sensitivity easy
- Compact & light weight, no rack required:
33 (W) × 149 (H) × 210 (D) mm · 750g
- Can be used in an automobile: 12 V DC
- Wide frequency characteristics from 0.5 Hz to 30 kHz (acceleration)
- The number of channels can be easily increased by just sliding in the guides
- Integrating circuits allow velocity and displacement measurement
- Built-in RS-232-C interface
- Built-in low-pass & high-pass filters (option)
- Option: Display Unit (UV-12A) & Battery unit (BP-07)

Specifications

Input:

Accelerometer:	Max. input charge 100 000 pC
Preamplifier (1):	Accelerometer via charge amplifier
Preamplifier (2):	Accelerometer with built-in preamplifier
Measurement Modes:	Acceleration, Velocity, Displacement

Noise Level: (at input capacitance 1000 pF,
sensitivity 5.00 pC/ms⁻²)

Acceleration:	0.01 m/s ² RMS
Velocity:	0.1 mm/s RMS
Displacement:	0.0015 mm RMS
Applicable Sensitivity:	0.100 to 0.999, 1.00 to 9.99, 10.0 to 99.9 pC/ms ⁻² 3 ranges

Full-scale Range:

(at sensitivity 1.00 to 9.99 pC/ms ⁻²)	
Acceleration:	1, 3.16, to 1000 m/s ²
Velocity:	1, 3.16, to 1000 mm/s
Displacement:	0.1, 0.316 to 100 mm

Frequency Range:

Acceleration:	1 to 15 000 Hz ± 5 % 0.5 to 30 000 Hz ± 10 %
Velocity:	3 to 3 000 Hz ± 5 %
Displacement:	3 to 500 Hz ± 10 %

Detector:

rms, EQ peak, EQ p-p
cut off 18 dB/oct.

Signal Indication:

LED, 10 % steps
Output Signal for Calibration:
1 V ± 2 %, (rms, peak,
p-p at 80 Hz ± 5 %)

Overload Indication:

LED

Output:

AC:	BNC connector, 1 V ± 2 %
DC:	BNC connector, +1 V ± 2 % (at full-scale)

Interface:

RS-232-C

Ambient Conditions for Operation:

-10 to 50 °C, less
than 90 %RH

Power:

(option)	
AC adaptor:	
NC-11:	100 V AC 12 V DC, 300 mA
NC-11A:	120 V AC 12 V DC, 300 mA
NC-11B:	220 V AC 12 V DC, 300 mA
NC-97:	100 - 240 V AC 12 V, 3.3 A

Battery Unit:

BP-07 (8 × IEC R14, option)

Dimensions & Weight: 33 (W) × 149 (H) ×
210 (D) mm, App. 750 g

Multi-Channel Vibration Measurement 2-channel Charge Amplifier Model **UV-06A**



Front panel

Rear panel

Battery unit BP-07

Specifications

Channel:	2
Input:	Accelerometer
Max. input charge:	100 000 pC
Measurement Modes:	Acceleration, Velocity, Displacement
Noise Level: (at input capacitance 1000 pF, sensitivity 5.00 pC/ms ⁻²)	
Acceleration:	less than 0.01 m/s ² RMS
Velocity:	less than 0.1 mm/s RMS
Displacement:	less than 0.0015 mm RMS
Applicable Sensitivity: 0.100 to 0.999,	
	1.00 to 9.99, 10.0 to 99.9 pC/ms ⁻² 3 ranges
Full-scale Range:	
(at sensitivity 1.00 to 9.99 pC/ms ⁻²)	
Acceleration:	1, 10, 100, 1000 m/s ²
Velocity:	1, 10, 100, 1000 mm/s
Displacement:	0.1, 1, 10, 100 mm
Frequency Range:	
Acceleration:	1 to 15 000 Hz ± 5 % 0.5 to 30 000 Hz ± 10 %
Velocity:	3 to 3 000 Hz ± 5 %
Displacement:	3 to 500 Hz ± 10 %
Filter:	cut off 18 dB/oct.
High-pass:	10, 20, 50Hz
Low-pass:	1k, 3k, 10 kHz
Signal Indication:	LED for the level of -20 dB, over the full-scale
Output Signal for Calibration:	
	1 V (peak) ± 2 %, 80 Hz ± 5 %
Overload Indication:	LED
AC output:	BNC connector, 1 V ± 2 % (at full-scale)
Ambient Conditions for Operation:	
	-10 to 50 °C, less than 90 %RH
Power:	
(option)	
AC adaptor:	
NC-11:	100 V AC 12 V DC, 300 mA
NC-11A:	120 V AC 12 V DC, 300 mA
NC-11B:	220 V AC 12 V DC, 300 mA
NC-97:	100 - 240 V AC 12 V, 3.3 A
Battery Unit:	
BP-07	(8 × IEC R14, option)
Dimensions & Weight:	33 (W) × 149 (H) × 210 (D) mm, App. 700 g

- 2 Channels in a slim case: 30 mm width
- Pulling-down panel making setting of accelerometer sensitivity easy
- Compact & light weight, no rack required:
33 (W) × 149 (H) × 210 (D) mm · 700 g
- Can be used in an automobile: 12 V DC
- Wide frequency characteristics from 0.5 Hz to 30 kHz (acceleration)
- The number of channels can be easily increased by just sliding in the guides
- Integrating circuits allow velocity and displacement measurement
- Built-in low-pass (3 steps) & high-pass (3 steps) filters
- Option: Battery unit (BP-07)

Specifications subject to change without notice.



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