

Multi-channel Vibration Measurement 2-channel Charge Amplifier

Model **UV-06**



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 [1]:	0.001 G RMS
Acceleration [2]:	0.01 m/s ² RMS
Velocity:	0.1 mm/s RMS
Displacement:	0.0015 mm RMS
Applicable Sensitivity:	0.100 – 0.999, 1.00 – 9.99, 10.0 – 99.9 pC/ms ⁻² 3 ranges
Full-scale Range:	
(at sensitivity 1.00 – 9.99 pC/ms ⁻²)	
Acceleration [1]:	0.1, 1, 10, 100 G
Acceleration [2]:	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 – 15 000 Hz ± 5 % 0.5 – 30 000 Hz ± 10 %
Velocity:	3 – 3 000 Hz ± 5 %
Displacement:	3 – 500 Hz ± 10 %
Filter:	cut off 18 dB/oct.
High-pass:	10, 20, 50 Hz
Low-pass:	1k, 3k, 10 kHz
Signal Indication:	LED for the level of –20 dB below the full-scale
Output Signal for Calibration:	1 V (peak) ± 2 %, 80 Hz ± 5 %
Overload Indicator:	LED
AC output:	BNC connector, 1 V ± 2 % (at full-scale)
Ambient Conditions for Operation:	–10 to 50 °C, less than 90 %RH
Power:	DC 9 to 15 V
(option)	
AC adaptor:	NC-11 (12 V 300 mA), NC-79 (12 V 2 A)
Battery Unit:	BP-07 (8 × IEC R14)
Dimensions & Weight:	15 × 3 × 21 cm, App. 650 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:
3 (W) × 21 (H) × 15 (D) cm · 650 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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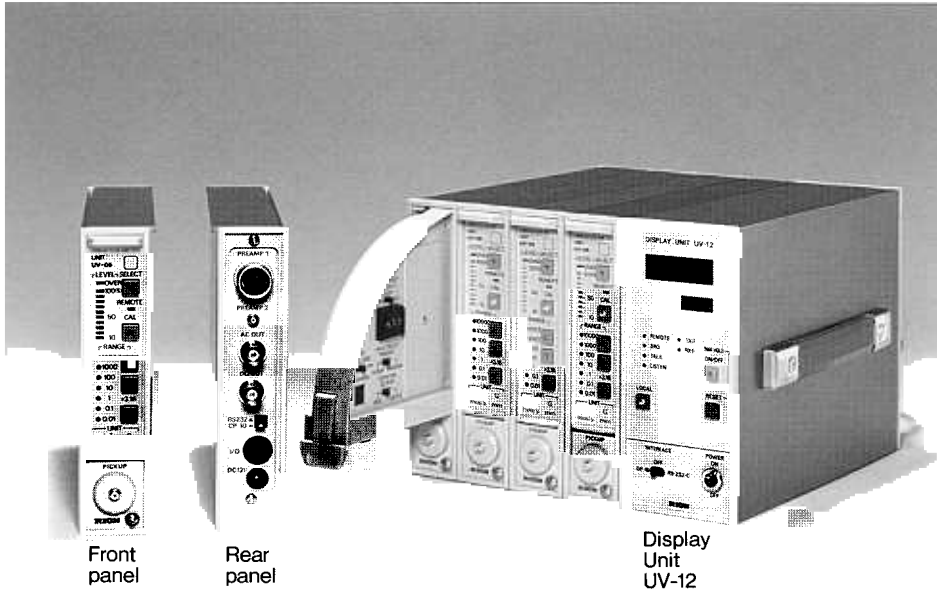
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Multi-channel Vibration Measurement Vibration Meter Unit Model **UV-05**



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 [1]:	0.001 G RMS
Acceleration [2]:	0.01 m/s ² RMS
Velocity:	0.1 mm/s RMS
Displacement:	0.0015 mm RMS

Applicable Sensitivity: 0.100 – 0.999,
1.00 – 9.99,
10.0 – 99.9 pC/ms⁻²
3 ranges

Full-scale Range:

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

Frequency Range:

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

Detector:

Filter (option): rms, EQ peak, EQ p-p

Signal Indication: cut off 18 dB/oct.

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

Overload Indicator:

LED

Output:

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

Interface: RS-232C

Ambient Conditions for Operation:

–10 to 50 °C, less
than 90 %RH
DC 9 to 15 V

Power:

(option)
AC adaptor: NC-11 (12 V 300 mA,
option)
NC-79 (12 V 2 A,
option)

Battery Unit:
BP-07 (8 × IEC R14,
option)

Dimensions & Weight: 15 × 3 × 21 cm,
App. 650 g

- 30 mm width slim case
- Pulling-down panel making setting of accelerometer sensitivity easy
- Compact & light weight, no rack required:
3 (W) × 21 (H) × 15 (D) cm · 650 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 RS-232C interface
- Built-in low-pass & high-pass filter (option)
- Option: Display unit (UV-12) & Battery unit (BP-07)