

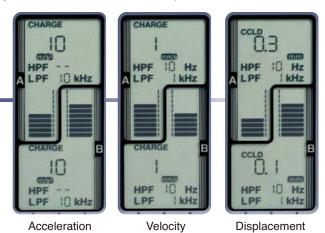
Manufacturing and development of engines, motors and other products and the measurement of vibration of devices installed in power generating facilities or





The UV-16 is a 2-channel charge amplifier that is compatible with the input of piezoelectric accelerometers and accelerometers with built-in preamplifier. A multi-channel charge amplifier can be configured by coupling together a maximum of 16 units and 32 channels.

- Equipped with LCD display, overload indicator LED, operating switch, input/output terminals, power input terminals and coupling connectors
- It can be mounted on JIS standard racks even with a small number of channels (max. 12 units, 24 channels)
- AC adapter or battery unit BP-17 can be used as the power source



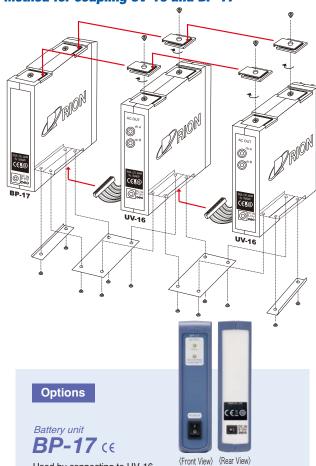
■ Specifications

| ■Specifications | | |
|---|--|--|
| Input | | |
| Channels | 2 | |
| Connector | Microdot connector | |
| Types | Piezoelectric accelerometer | |
| .,,,,,,,, | Accelerometer with built-in preamplifier 24 V, 4 mA | |
| Measurement modes | ACC (acceleration): m/s², VEL (velocity): mm/s, DISP (displacement): mm | |
| and units | (,,,,,, | |
| Sensitivity setting | | |
| Setting range 0.100 to 0.999 in 0.001 intervals | | |
| 3 3. | 1.00 to 9.99 in 0.01 intervals | |
| | 10.0 to 99.9 in 0.1 intervals | |
| Units | pC/(m/s²) (piezoelectric accelerometer) | |
| | mV/(m/s²) (accelerometer with built-in preamplifier) | |
| Range | 7 stages (selected value range differs with the sensitivity setting) | |
| In the case of 0.100 to | 0.999 sensitivity | |
| ACC (acceleration) | 10, 30, 100, 300, 1 000, 3 000, 10 000 | |
| VEL (velocity) | 10, 30, 100, 300, 1 000, 3 000, 10 000 | |
| DISP (displacement) | 1, 3, 10, 30, 100, 300, 1 000 | |
| In the case of 1.00 to | 9.99 sensitivity | |
| ACC (acceleration) | 1, 3, 10, 30, 100, 300, 1 000 | |
| VEL (velocity) | 1, 3, 10, 30, 100, 300, 1 000 | |
| DISP (displacement) | | |
| In the case of 10.0 to | 99.9 sensitivity | |
| ACC (acceleration) | 0.1, 0.3, 1, 3, 10, 30, 100 | |
| VEL (velocity) | 0.1, 0.3, 1, 3, 10, 30, 100 | |
| DISP (displacement) | 0.01, 0.03, 0.1, 0.3, 1, 3, 10 | |
| Frequency range | | |
| ACC (acceleration) | 1 Hz to 15 kHz (current AC output tolerance ±5 %) | |
| | 0.5 Hz to 30 kHz (current AC output tolerance ±10 %) | |
| VEL (velocity) | 3 Hz to 3 kHz (current AC output tolerance ±5 %) | |
| DISP (displacement) | 3 Hz to 500 Hz (current AC output tolerance ±10 %) | |
| Filter | Settable to HPF or LPF by channel | |
| HPF | OFF, 10 Hz, 20 Hz, 50 Hz | |
| LPF | 1 kHz, 3 kHz, 10 kHz, OFF | |
| Display | Segment LCD with backlight | |
| Display content | Settings, bar graph (100 ms cycles) | |
| Warning display | LED×2 | |
| | Overload indication: red (by channel) | |
| Output signal for | Sine wave, 80 Hz ± 5 %, output signal 1 V (peak) ± 2 % | |
| calibration | | |
| Output (current output) | | |
| Output terminals | BNC connector × 2 | |
| Output impedance | 50Ω (load resistance 10 kΩ or more) | |
| Output voltage precision | 80 Hz full scale | |
| ACC (acceleration) | 1 V(Peak)±2 % | |
| VEL (velocity) | 1 V(Peak)±3 % | |
| DISP (displacement) | 1 V (Peak) ± 5 % | |
| Max. output voltage | ±10 V(Peak) or more | |
| Cross talk | -80 dB or less | |
| between channels | (Both channels: sensitivity: 5.00, range: 100, acceleration, input signal: 10 kHz) | |
| Inherent noise | When input capacitance: 1 000 pF, sensitivity: 5.00, piezoelectric accelerometer | |
| | HPF: off, LPF: off, minimum range | |
| ACC (acceleration) | 0.01 m/s²(RMS) or less | |
| VEL (velocity) | 0.1 mm/s(RMS) or less | |
| DISP (displacement) | 0.0015 mm(RMS) or less | |
| Power requirements | DC9 V to 15 V | |
| | Compatible AC adapters: NC-99 | |
| | Special battery unit: BP-17 | |
| Resume function | Settings are retained in memory when the power requirement is turned off | |
| | and are restored when the power requirement is turned on again | |
| Ambient conditions for operation | -10 °C to +50 °C, 90 % RH or less (no condensation) | |
| Dimensions and weight | 150 (H) x36 (W) x179 (D) mm, Approx. 500 g | |
| Accessories | Coupling plate × 1 | |
| | | |

Ontional accessories

| Optional accessories | | | |
|----------------------|----------|--|--|
| Name | Model | | |
| Battery unit | BP-17 | | |
| AC adapter | NC-99 | | |
| Accelerometers | Various | | |
| BNC-BNC cable | NC-39A | | |
| Rack mount | CF-27 | | |
| Cigar plug cable | CC-82 | | |
| Coupling plate | UV160070 | | |

Method for coupling UV-16 and BP-17



Used by connecting to UV-16

When using dry batteries, the BP-17 can power three UV-16 units. (for one unit up to sixteen UV-16 units can be powered by using the BP-17 and AC adapter)

- ■IEC R14 (size C) batteries × 8
- Operating time: (when providing power to three UV-16 units) 17 hours (LR14 Alkaline batteries), 5 hours (R14PU Manganeese batteries) «CHARGE-setting, normal operating conditions, 25 ℃ 8 hours (LR14 Alkaline batteries), 2.5 hours (R14PU Manganeese batteries)

AC adapter

NC-99 (6



Used when operating the unit with AC electrical power

■ NC-99: AC100 V to 240 V, 12 V DC, 5 A (for max. 16 units)





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* Specifications subject to change without notice

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