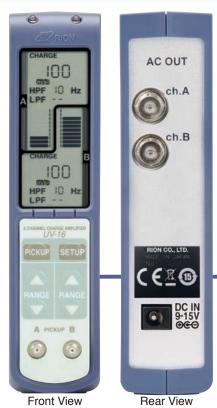


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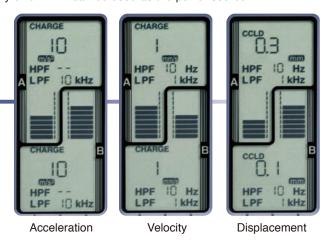
Manufacturing and development of engines, motors and other products and the measurement of vibration of devices installed in power generating facilities or





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



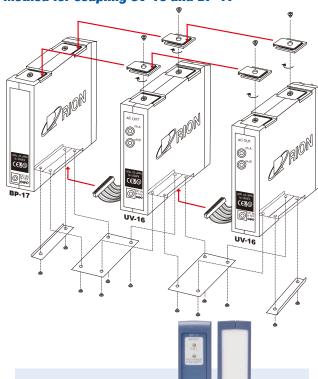
Coocifications

| 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 | |
| | 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 | | |
| 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 | | |
| ACC (acceleration) | | |
| VEL (velocity) DISP (displacement) | 1, 3, 10, 30, 100, 300, 1 000 0.1, 0.3, 1, 3, 10, 30, 100 | |
| In the case of 10.0 to | | |
| 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 | 0.01, 0.00, 0.1, 0.0, 1, 0, 10 | |
| ACC (acceleration) | 1 Hz to 15 kHz (current AC output tolerance ±5 %) | |
| /100 (doddicration) | 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 | 50 Ω (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 acceleromete | |
| | HPF: off, LPF: off, minimum range | |
| ACC (acceleration) | 0.01 m/s ² (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-99A/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 | |
| | I | |
| Ambient conditions for operation | -10 °C to +50 °C, 90 % RH or less (no condensation) | |
| Ambient conditions for operation Dimensions and weight | -10 °C to +50 °C, 90 % RH or less (no condensation) 150 (H) ×36 (W) ×179 (D) mm, Approx. 500 g | |
| | | |

Ontional accessories

| Optional accessories | | |
|----------------------|-----------|--|
| Name | Model | |
| Battery unit | BP-17 | |
| AC adapter | NC-99A/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



Options

Battery unit **BP-17**(6)

(Front View) (Rear View)

CE @

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)





■ NC-99A: AC100 V to 240 V, 12 V DC (for max. 10 units) ■NC-99: AC100 V to 240 V, 12 V DC (for max. 16 units)

Rack mount CF-27(JIS standard)

■ Dimensions: 149 (H) × 480 (W) × 320 (D) mm



JCSS 0197

RION CO., LTD. is recognized by the JCSS which uses ISO/IEC 17025 as an accreditation standard and bases its accreditation scheme on ISO/IEC 17011. JCSS is operated by the accreditation body (IA Japan) which is a signatory to the Asia Pacific Accreditation Cooperation (APAC) as well as the International Laboratory Accreditation Cooperation (ILAC). The Quality Assurance Section of RION CO., LTD. is an international MRA compliant JCSS operator with the accreditation number JCSS 0197.



* Specifications subject to change without notice

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