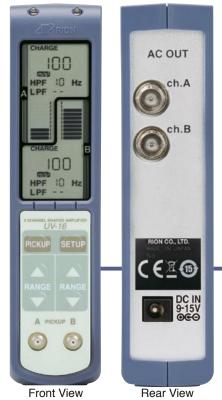


Manufacturing and development of engines, motors and other products and the measurement of vibration of devices installed in power generating facilities or

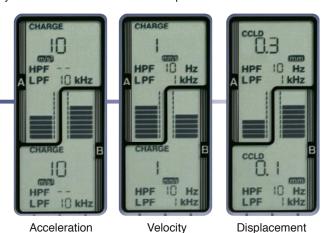




The UV-16 is a 2-channel charge amplifier that is compatible with the input of piezoelectric accelerometers and accelerometers with built-in preamplifier.

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

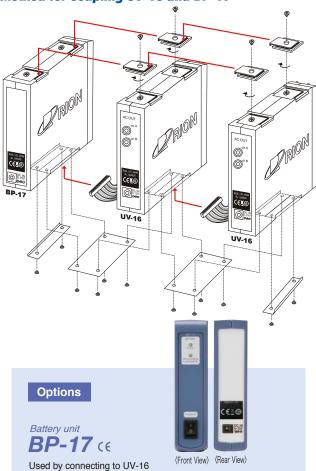


Input	
Channels	2
Connector	Microdot connector
Types	Piezoelectric accelerometer
71	Accelerometer with built-in preamplifier 24 V, 4 mA
Measurement modes	ACC (acceleration): m/s², VEL (velocity): mm/s, DISP (displacement): mm
and units	, , , , , , , , , , , , , , , , , , , ,
Sensitivity setting	
Setting 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	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	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)	0.1, 0.3, 1, 3, 10, 30, 100
In the case of 10.0 to 9	<u> </u>
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)	DNO
Output terminals	BNC connector × 2
Output impedance	50 Ω (load resistance 10 kΩ or more) 80 Hz full scale
Output voltage precision ACC (acceleration)	1 V(Peak)±2 %
VEL (velocity)	1 V(Peak)±2 %
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
iniorent noise	HPF: off, LPF: off, minimum range
ACC (acceleration)	0.01 m/s²(RMS) or less
VEL (velocity)	0.1 mm/s(RMS) or less
	0.0015 mm(RMS) or less
DISP (displacement)	DC9 V to 15 V
DISP (displacement) Power requirements	
DISP (displacement) Power requirements	Compatible AC adapters: NC-99
	Compatible AC adapters: NC-99 Special battery unit: BP-17
	Special battery unit: BP-17
Power requirements	Special battery unit: BP-17 Settings are retained in memory when the power requirement is turned off
Power requirements Resume function	Special battery unit: BP-17 Settings are retained in memory when the power requirement is turned off and are restored when the power requirement is turned on again
Power requirements	Special battery unit: BP-17 Settings are retained in memory when the power requirement is turned off

Optional 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



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 °C 8 hours (LR14 Alkaline batteries), 2.5 hours (R14PU Manganeese batteries) *CCLD-setting, normal operating conditions, 25 °C

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)



■ Dimensions: 149(H)×480(W)×320(D)mm



* Specifications subject to change without notice.

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