

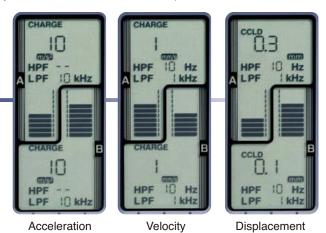
Manufacturing and development of engines, motors and other products and the measurement of vibration of devices installed in power generating facilities or





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



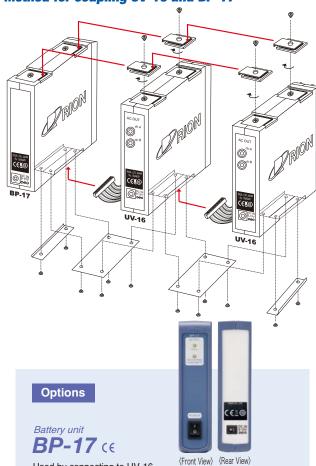
■ Specifications

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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)	0.1, 0.3, 1, 3, 10, 30, 100	
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 \pm 5 %, output signal 1 V (peak) \pm 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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