

# VAQ<sup>®</sup>-700A

● Simultaneous measurement of acceleration, velocity and displacement

## ASQ dedicated conditioner



### Signal conditioner that can simultaneously measure acceleration, velocity and displacement

- Easy-to-read LED indicator
- Single channel type. Multiple units can be accommodated in a portable housing case for multi-channel measurement.

The 1-channel signal conditioner enables simultaneous measurement of acceleration, velocity by 1-time integration and displacement by 2-time integration. For multi-channel measurement, a portable housing case is available to accommodate multiple units.

#### Specifications

Applicable Transducers		ASQ-D-1	ASQ-D-2	ASQ-D-5
Number of Measuring Channels		1		
Measuring Modes		Simultaneous measurement and output of acceleration, velocity and displacement		
Acceleration	Measuring Range	$\pm 9.807 \text{ m/s}^2 (\pm 1G)$	$\pm 19.61 \text{ m/s}^2 (\pm 2G)$	$\pm 49.03 \text{ m/s}^2 (\pm 5G)$
	Range Select ( $G=9.807 \text{ m/s}^2$ )	0.01, 0.1, 1G, OFF	0.02, 0.2, 2G, OFF	0.05, 0.5, 5G, OFF
	Calibration	Linked with selected range x 1.02		
	Accuracy	$\pm 0.5\%$ to reading with both measuring range and calibration		
	Frequency Response Range	DC to 300 Hz ( $\pm 5\%$ ) in DC acceleration mode, 0.1 to 100 Hz ( $\pm 5\%$ ) in AC acceleration mode		
Velocity	Measuring Range	$\pm 100 \text{ cm/s}$	$\pm 200 \text{ cm/s}$	$\pm 500 \text{ cm/s}$
	Range Select	1, 10, 100 cm/s, OFF	2, 20, 200 cm/s, OFF	5, 50, 500 cm/s, OFF
	Calibration	Linked with selected range		
	Accuracy	$\pm 1\%$ to reading with both measuring range and calibration		
	Frequency Response Range	0.1 to 100 Hz ( $\pm 5\%$ )		
Displacement	Measuring Range	$\pm 100 \text{ mm}$	$\pm 200 \text{ mm}$	$\pm 500 \text{ mm}$
	Range Select ( $G=9.807 \text{ m/s}^2$ )	1, 10, 100 mm, OFF	2, 20, 200 mm, OFF	5, 50, 500 mm, OFF
	Calibration	Linked with selected range		
	Accuracy	$\pm 1\%$ to reading with both measuring range and calibration		
	Frequency Response Range	0.1 to 60 Hz ( $\pm 5\%$ ) (1 to 60 Hz with a maximum sensitivity selected for the measuring range)		
Output		$\pm 10 \text{ V}$ (load 5 k $\Omega$ or more)		
Operating Temperature Range		-10 to 50°C		
Power Supply		AC line or 12 VDC		
Dimensions & Weight		49(W) $\times$ 128.5(H) $\times$ 262.5(D) mm, approx. 1.4 kg		

**Standard Accessories** AC power cable P-16 (With a conversion adapter CM-39), output cable U-58 (3 PC.), fuse, miniature screwdriver, Instruction Manual

**Optional Accessories** YC-A is a portable housing case that can accommodate multiple units of VAQ-700A. For the YC-A, refer to page 3-18.

#### Dimensions

