



IST-300 Type A02

## Spec Sheet

# IST-300 Vibration Calibrator

For all vibration protection systems with voltage inputs e.g. VM600, BN3300, BN3500, B&K Compass, VC6000.

### Purpose

In a number of situations determining the loop accuracy in the field is required. A simple battery powered DC voltage simulator allows only static signals to be simulated e.g. axial displacement and/or bias voltage. For dynamic acceleration, velocity and/or radial vibration signals a function generator is needed.

The standard available function generators, specific portable versions, do not allow a sufficient DC span in combination with AC superimposed signals. The IST-300 vibration calibrator solves these issues. The compact two channel battery powered vibration calibrator has been built based on the input from field service engineers and for its purpose is truly one of the most easy to use and complete service instruments in the field.

### Following models are available:

- 2-channel portable: IST-300 Type A02
- 4-channel lab instrument: IST-300 Type A04



# Operation:

## Both models operate in the same way.

For each of the channels a toggle switch is used to select the appropriate display:

1. Frequency
2. Amplitude
3. Offset

Pk-Pk or RMS output is selected by means of a second toggle switch.

The channel is set by means in an incremental dial. Depending on the speed of dialling, the output value is adjusted in increments of 1 or 50.

An LED indicates when the output has reached its maximum (+ or - 16.000 mVolt). All values are continuously visible in their assigned display.

The outputs are available by means of a 50 Ohm BNC output connector at the top of the vibration calibrator. Next to the output connector, a signal reverse switch is available for fast DC reverse selection.

## Specification:

Digital Amplitude 14 bit:	0 - 4.000 mV	Pk-Pk / RMS selectable
Accuracy:	100 mV +/- 3%	
	200 mV - 4000 mV	better than +/- 1%
Digital Offset 14 bit:	0 - 16.000 mV	+/- selectable
Accuracy:	Full range +/- 1%	
Temperature drift:	30 $\mu$ V/°C	Typical
Maximum output current:	20 mAmp	
Frequency Range:	0 - 19.999 Hz	
Tolerance:	@ 19.999 Hz < 0.001 %	(+ / - 1 Hz)
Operating temperature range:	5 °C - 55 °C	
Storage @95% Humidity:	-10 - +80 °C	with batteries removed.
Battery operation:	Up to 8 hour	continuously.
	NI-MH	fast charge type.

## Models

### IST300-AXX

#### AXX (Number of channels)

- 01-Not Applicable
  - 02-2 channel portable unit
  - 03-Not Applicable
  - 04-4 channel lab unit
- Other combinations are not applicable

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