EH Counter – Multi-function Type

Series 542 — Versatile, Multi-function Displays for all Linear Gage Formats

Optional Accessories
• I/O output connector (with cover): **No.02ADB440**

- Two types are available for this model: a 1-axis display and a 2-axis display, which enables addition or subtraction calculations between two gages.
- Multifunctional counter equipped with zero-setting, presetting and tolerance judgment.
- RS-232C and USB are equipped as standard. Data transfer to a PC is possible. (*USB is supported only by Mitutoyo SENSORPAK.)

- A multi-point (max. 12 points) measuring system can easily be configured with the built-in RS link networking function. Refer to "Quick Guide to Precision Measuring Instruments" on page G-32 for details of the RS link.
- Employs DIN size (144x72mm) and mount-on-panel configuration to facilitate system integration.
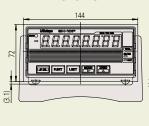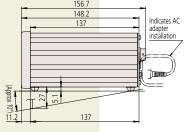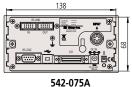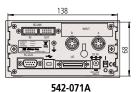- Peak mode feature: Max, Min, and TIR (can be toggled)

SPECIFICATIONS

Order No.		542-075A	542-071A	542-073A	542-074A	542-072A
Applicable gage head		**LGE**, **LGF**, **LGK**, **LGB**, **LGM**, **LG**, **LGH** (not compatible with LGH-110, reference point, or sine wave models)	**LGF** with reference point mark	**LGB** sine wave output / Linear scale sine wave output		**LGD**, **LGS**, **ID**, **SD**
Number of gage inputs		1	2			
Number of axes to be displayed		1 axis	2 axes			
Quantizing error		±1 count				
Maximum input frequency		2.5MHz (2-phase square wave)			1MHz (2-phase sine wave)	—
Resolution		0.01mm (±9999.99mm) / .0005" (±99.9995") 0.001mm (±999.999mm) / .00005" (±9.99995") 0.0001mm (±99.9999mm) / .000005" (±.999995") [Parameter set]				Automatic setting by gage
		—			0.01 / 0.001µm	
Display		Sign plus 8 digits (Green LED)				
Tolerance judgment display		LED display (3 steps: Amber, Green, Red/ 5 steps: Amber, Amber flashing, Green, Red flashing, Red)				
Interface		RS-232C/USB/parameter selection via digimatic (only DP-1VR, digimatic mini-processor can be connected) (USB used only with SENSORPAK.) Selection by parameter from 3-step, 5-step, or digit BCD Total tolerance judgment output (when tolerance function is enabled) Analog output (1V-4V)				
Input/output	Control output	Normal operation signal (NOM): open collector				
	Control input	Display BANK switching, peak mode, presetting, display hold, hold per axis: open-collector or no-voltage contact signal (with/without contact point)				
Rating	Power supply voltage	Supplied AC adapter, or 12 - 24V DC				
	Power consumption	8.4W (max. 700mA) Ensure at least 1A is available per unit.				
Operating temperature (humidity) range		0 to 40°C (RH 20 to 80%, no condensation)				
Storage temperature (humidity) range		−10 to 50°C (RH 20 to 80%, no condensation)				
External dimensions		144 (W) ×72 (H) ×156.7 (D) mm				
AC adapter / AC cable (standard accessory)		AC adapter: **No. 357651** / AC cable (USA): **No.02ZAA010**∗,				
Applicable input		Differential square-wave			Differential sine-wave	Digimatic code output
Mass		Approx. 760g	Approx. 800g	Approx. 800g	Approx. 900g	Approx. 800g

DIMENSIONS

Indicates AC adapter installation

Unit: mm

542-075A   542-071A

542-073A   542-074A   542-072A

Mitutoyo