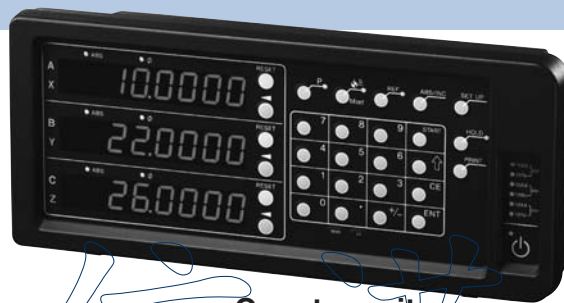


# LY

# LY72

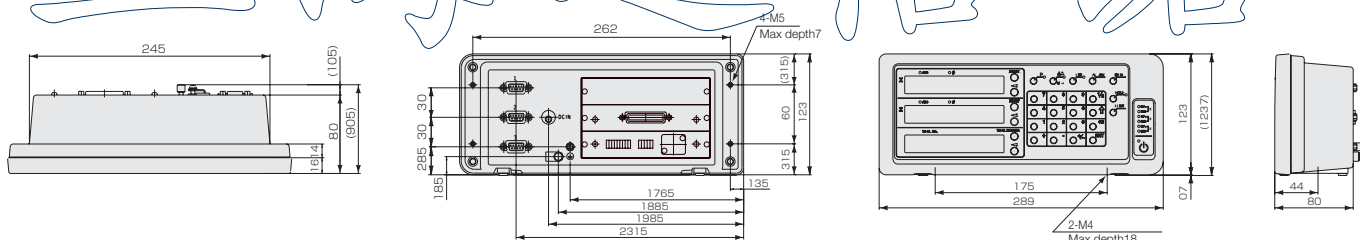
For measurements and control in diverse field uses.  
Multifunction counter with RS-232C interface

- RS-232C standard function
- Peak Hold Function Convenient for Statistical Measurement
- Convenient External Input Functions for Automatic Measurement
- Display Resolution Switching
- Data Storage.
- Reset/Preset/Restart
- Detecting Reference Point of Measurement Unit
- Scaling
- Flicker Control



Counter unit

## Dimensions



\*Please refer to LY71 panel cut-out diagram.  
\*Please refer to p54 for the details of the screw.

Unit : mm/inch

## Specifications

Model	LY72	
Specifications by application	Applications as gauge (set axis labels A, B, and C)	Applications as scale (set axis labels X, Y, and Z)
Display	7 digits and minus display, Color amber	
Number of input shafts	1 to 3 axis	
Display data	Current (1st axis, 2nd axis, addition axis), maximum, minimum and peak-to-peak values	Current (1st axis, 3rd axis, addition axis)
Measuring unit input resolution	Standard : 0.1 μm, 0.5 μm, 1 μm, 5 μm, 10 μm, 1 s, 10 s, 1 min, 10 min Expanded : 100 μm, 50 μm, 25 μm, 20 μm, 2 μm, 0.05 μm, and 1 degree can be added.	
Input signal	A/B quadrature signal, Z signal (Conforms to EIA-422)	
Display resolution	Measuring unit input resolution or higher and supported inch units Inch: Basic : 0.000005", 0.00001", 0.00005", 0.0002", 0.0005" Inch: Expanded: 0.000002", 0.0001", 0.001", 0.002", 0.005"	
Minimum input phase difference	100 ns	
Alarm display	Measuring unit disconnected, Excess speed, Maximum display amount exceeded, Power failure, Error in stored data	
Reset	Current value reset, Alarm cancel	
Restart	Restart of peak value calculation for each axis/all axes	—
Preset	It is possible to store/edit up to three values for each axis.	
Master calibration function	The master calibration value is relocated when going past the reference point after the power is turned on.	—
Datum point operations	It is possible to store/edit one value for each axis (when not using the master calibration function).	
Reference point operations	It is possible to store/edit one value for each axis (when not using the master calibration function).	
Hold function	Selectable from latch and pause Latch : Display held while latched (Display hold) Pause : Peak calculation stopped while paused (Peak calculation hold)	Display hold
Linear compensation	A fixed compensation amount is applied to the measuring unit's count value. Compensation amount Standard: ±600 μm/m (Expanded: ±1000 μm/m)	
Scaling	Scaling factor: 0.100000 to 9.999999	
RS-232C	Data format : All axes on same line/New line for each axis Peak-to-peak value Transfer rate : 38400/19200/9600/4800/2400/1200 bps Parity : None / Odd / Even Stop bit : 1 or 2 Data length : 8 bits or 7 bits	
Timer	OFF/0.2/0.5/1/5/10/30/60/300 seconds	—
Output data selection	Current value/Maximum value/Minimum value Peak-to-Peak value	Current value
Power supply	DC 12 V Rating 0.75 A Max. 1 A AC 100 V to 240 V ±10 % When using the AC adaptor PSC-22 (For U.S. only) or PSC-23 (For Europe and other countries) *Option	
Power consumption	MAX. 32 VA connected at the AC adaptor.	
Operating temperature	0 to 40 °C (no condensation)	
Storage temperature	-20 to 60 °C (no condensation)	
Mass	Approx. 1.5 kg	