

# LY

# LY71

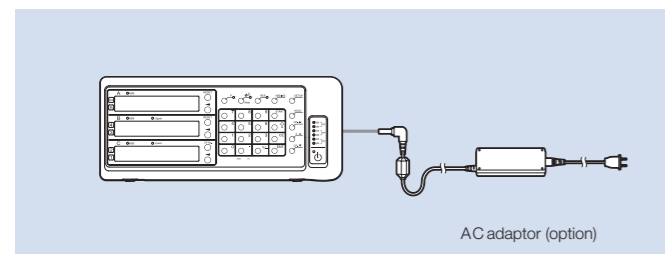
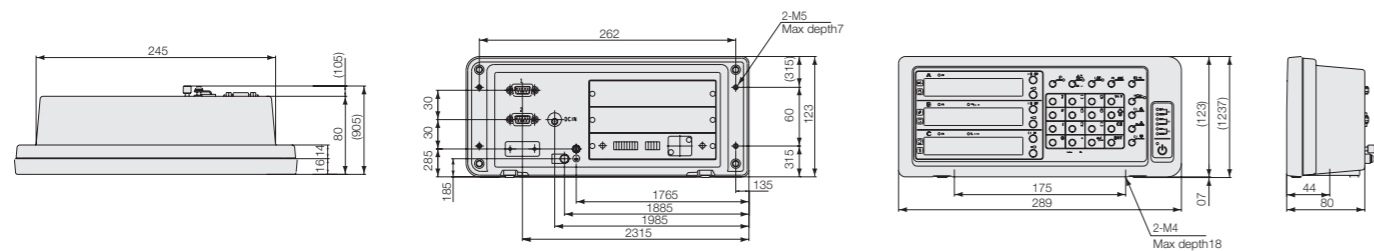
For measurements and control in diverse field uses.  
The required output board can be extended.

- Various outputs are enabled by mounting extension boards
  - BCD Output (Option)
  - Comparator Function: Relay / Open-collector (Option)
- 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

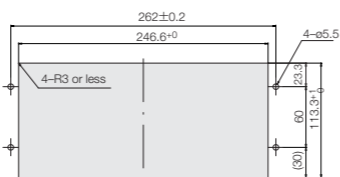


Counter unit

### Dimensions



AC adaptor (option)



Mounting the counter unit from the panel front.

Unit : mm/inch

\*Please refer to p54 for the details of the screw.

### Specifications

| Model                           | LY71  |
|---------------------------------|---|
| Display                         | 7 digits and minus display, Color amber   |
| Number of input shafts          | 1 or 2 axes (2-axis add function available; addition only is displayed when adding)   |
| Display data                    | Current (1st axis, 2nd axis, addition axis), maximum, minimum and peak-to-peak values   |
| 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<br>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<br>Inch: Basic : 0.000005", 0.00001", 0.00005", 0.0002", 0.0005"<br>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<br>Latch : Display held while latched (Display hold)<br>Pause : Peak calculation stopped while paused (Peak calculation 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  |
| 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  |

# LY

# LY72

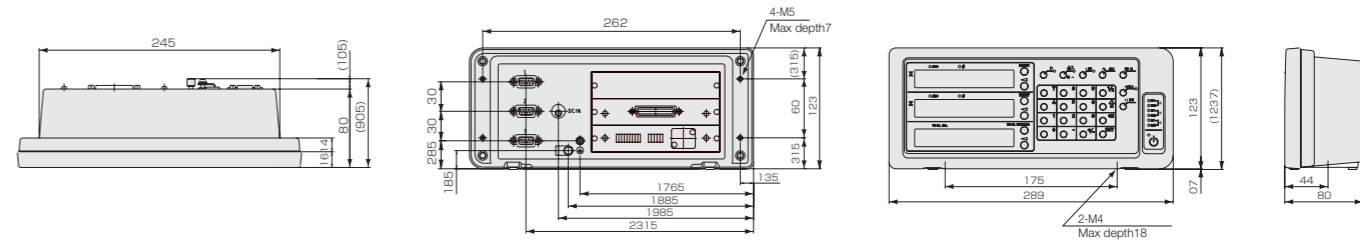
For measurements and control in diverse field uses.  
Multifunction counter with RS-232C interface

- 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<br>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<br>Inch: Basic : 0.000005", 0.00001", 0.00005", 0.0002", 0.0005"<br>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<br>Latch : Display held while latched (Display hold)<br>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<br>Data format : All axes on same line/New line for each axis Peak-to-peak value<br>Transfer rate : 38400/19200/9600/4800/2400/1200 bps<br>Parity : None / Odd / Even<br>Stop bit : 1 or 2<br>Data length : 8 bits or 7 bits |  |
| RS-232C                         | 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 |
| 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  |  |