LH54-3

Can be connected to MAGNESCALE®, DIGIRULER®, and gauges. High-performance display with RS-232C output for measurement data processing

- Capable of performing computations on measurements data. Ideal for statistical analysis of measurement data on a personal computer
  - • RS-232C data output • Measurement computation
- High response speed for selectable resolutions
  - • Magnescale axis: 60 m/ min • DIGIRULER axis: 300 m/ min
- Versatile functions provided as standard
  - • Switch-selectable resolution

  Magnescale : 0.0005 mm, 0.001 mm, 0.005 mm, 0.01 mm

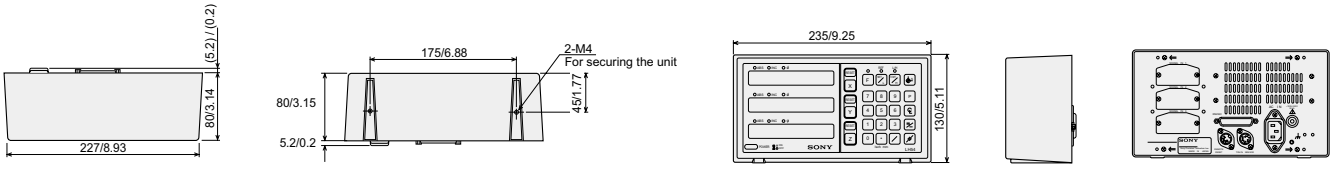
  DIGIRULER : 0.01 mm, 0.02 mm, 0.05 mm, 0.1 mm
  - • Machine error compensation • Data storage
  - • External print function: Display data can be output for printout in response to Touch Sensor input
  - • Two-axis display setting

Specifications

Model	LH54-3
No. of displayed axes	3 axes/ 2 axes (Note 1)
No. of displayed digits	7-digits and minus display with mode indicator, LED display (leading zero suppression with floating minus sign system)
Minimum display amount	Magnescale axis: 0.0005 mm, 0.001 mm, 0.005 mm, 0.01 mm, and multiples of each DIGIRULER axis: 0.01 mm, 0.02 mm, 0.05 mm, 0.1 mm, and multiples of each
Minimum response speed	Magnescale axis: 60 m/ min DIGIRULER axis: 300 m/ min
Alarm display	1. Power interrupt 2. Max.response speed exceeded 3. Error in stored data 4.Scale disconnected
Reset	Can be reset by external reset or by pressing a key switch at any point on the scale
Preset	Preset or by pressing a key switch
Recall	Data stored by a preset operation can be recalled by pressing a key switch
Datum point function	Datum point can be set by pressing a key switch
Absolute/incremental display switching	Can switch between incremental display and absolute display by pressing a key switch
Midpoint function	When using the INC display, the displayed value can be halved by pressing a key switch
Zero point detection/ Offset zero point	When used in combination with a zero-point scale, the absolute zero point can be detected and the datum point can be reproduced 1. Hold function; 2. Load function; 3. Hold value memory function
Touch Sensor function	Can perform such functions as datum surface detection when connected to the Touch Sensor 1. Hold; 2. Load; 3. Centering
RS-232C I/O function	Display data and operation results output/Basic key operation input Switchable among 1200/ 2400/ 4800/ 9600/ 19200 bps Parity (odd, even, none), stop bits (1 or 2), data length (7 or 8)
Output processing capability	In computer communications mode: approximately 5 data elements/second; In printer mode: approximately 7 data elements/second (Example under the following settings: 9600 bps switchable; parity: none; stop bits: 1; data length: 7)
External printing function	Display data is output in response to Touch Sensor input (Note 2)
Data storage	Saves value that is displayed when power is turned off, and preset data (in nonvolatile memory)
Linear error compensation	When the table moves a certain distance, a unit length is added or subtracted from the displayed value (linear compensation) 256 compensation values; maximum: ± 600 µm/m
Measuring operation functions (simple calculations)	1. Line (distance between two points, midpoint coordinates): three-dimensional coordinate system 2. Circle (center coordinates, radius, diameter, circumference and area of a circle that passes through three points): three-dimensional coordinate system 3. Rectangle: (center coordinates and area of a rectangle that passes through four points): two-dimensional coordinate system
Calculation result output	Pressing the P key outputs the results of an operation through the RS-232C interface
Scaling	Scaling factor: 0.100000 to 9.999999
Power supply	100 to 230 V AC ± 10 % 50/60 Hz
Power consumption	Maximum 35 VA
Operating temmperature and humidity ranges	0 ˚C to 40 ˚C / 32 ˚F to104 ˚F (no condensation) (Note 3)
Storage temmperature and humidity ranges	-20 ˚C to 60 ˚C 20 to 90 % RH (with no condensation)
External dimensions	235 mm (W) x 80 mm (D) x 130 mm (H) / 9.25 (W) x 3.14 (D) x 5.11 (H)"
Mass	Approx 1.6 kg/ 3.53 lbs

Note 1: When set to a 2-axis display, the X and Y axes are displayed. Note 2: Can be turned on/off by means of a foot switch as well as the touch sensor. (A Hoshiden TCP1324-71-5011 connector is reguired.) Note 3: Safety standards guaranteed range: 0 ˚C to 31 ˚C 80% RH, 31 ˚C (80% RH) to 40 ˚C (50% RH).

Dimensions



Unit : mm/inch