

# LH51 LH52

## Compact display with numerous functions for milling machines (LH51) and lathes (LH52)

- Selectable display resolution
- Selectable ABS/ INC display
- Linear error compensation
- Standard functions: reset, preset, recall, data storage, datum point memory, midpoint calculation and zero point detection
- Milling functions (LH51): touch sensor and bolt hole circle
- Lathing functions (LH52): hold, addition and tool offset
- Inch/metric display

### Specifications

Model	LH51-1	LH51-2	LH51-3	LH52-3
No. of connectable axes	1	2	3	3
No. of display axes	1	2	3	2
Display	7 digits, LED display, mode indication (leading zero suppress, floating minus sign)			
Display resolution	Varies with the transducer (0.5 μm with Magnescale)			
Max. response speed	Varies with the transducer (60 m/min with Magnescale)			
Reset	By key operation or external reset			
Preset	By key operation			
Recall	Data stored by preset can be recalled by key operation			
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			
Absolute/ Incremental	With the datum point set at any point on the scale, the absolute distance from the point can be displayed while machining in the INC mode			
Datum point memory	Set by key operations			
Touch sensor	Used with the optional Touch Sensor, LH51 detects the datum plane 1.Hold 2.Load 3.Centering			—
Zero point detection	Used with a transducer having a zero point, LH51/52 detects the zero point and reproduces a datum point			
Bolt hole circle	—	Number of divisions: 2 to 360; offset angle: 0° to 359.999° in 0.001° steps		—
Midpoint calculation	In the INC mode, the displayed value can be halved by a simple key operation			
Hold	—	—	The display value is held and a tool offset can be set with a key switch	
Addition function	—	—	2-axis addition (Z1 + Z2) can be displayed	
Tool offsets	—	—	Max. 9	
Data storage	Preset value and the value that was displayed before power-off are stored in non-volatile memory			
Alarm display	1. Power interrupt 2. Max.response speed exceeded 3. Error in stored data 4.Scale disconnected			
Operating temperature	0 °C to 40 °C / 32 °F to 104 °F (No condensation ; see note 1)			
Storage temperature	-20 °C to 60 °C / -4 °F to 140 °F			
Power supply	100 V AC to 230 V AC ± 10 % 50/60 Hz			
Power consumption	Max. 35 VA			
Mass	Approx. 1.6 kg / 3.53 lbs			

Note 1 : Guaranteed ranges under the applicable safety standard are 0 to 31°C (80% RH), 31°C (80% RH), to 40°C (50% RH).

### Dimensions

