

Specifications

Common Specifications

Function \ Model name	LH71A-1	LH71A-2	LH71A-3	LH72-3
Display	7 digits and minus display, Color amber			
Connectable measuring unit	GB-ER, SJ300 series, SJ700A, PL20C series (Direct) DG-B (Necessary to use the conversion adaptor which is sold separately.)			
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.			
Display resolution	Measuring unit input resolution or higher and diameter display (except for angle display)			
Input signal	A/B quadrature signal, Z signal (Conforms to EIA-422.)			
Minimum input phase difference	100 ns			
Quantization error	± 1 count			
Alarm display	Measuring unit disconnected, Excess speed, Maximum display amount exceeded, Power failure, Error in stored data			
Reset	Resettable by key switch or remote reset.			
Preset	It is possible to store/call 3 kinds of numbers.			
Reference point detection	The reference point of the measuring unit can be detected, and the datum point can be relocated (during connection of measuring unit with a reference point)			
Data storage	The value displayed before the power was turned off and setting values are stored			
Linear error compensation	A fixed compensation is applied to the measuring unit's count value. Compensation amount Standard: $\pm 600 \mu\text{m}/\text{m}$ (Expanded: $\pm 1000 \mu\text{m}/\text{m}$)			
Segmented error compensation	The movement range of the measuring unit with a reference point can be divided into a maximum of 32 sections, and error compensation is performed for each of these sections. Compensation amount: $\pm 600 \mu\text{m}$ (at each section)			
Scaling	Scaling factor: 0.100000 to 9.999999			
Program	Machining coordinates can be programmed (number of program steps: 850 max.) 1. Manual programming by key switch 2. Automatic programming by playback 3. Mirror image during program execution 4. A canned cycle (bolt hole, line hole, simple R cutting) can be inserted in the program. (LH71A only)			
Angle display	Can be displayed as an angle value when the Digiruler is pasted to the arc surface, and the diameter and Digiruler resolution are entered			
Sleep	The display is turned off when no operations are made for a preset time. (The time can be set.)			
Power supply	DC 12 V Rating 0.75 A Max. 1 A AC 100 to 240 V $\pm 10\%$ (When using AC adaptor which is sold separately.)			
Power consumption	Max. 32 VA (connected at AC power supply)			
Operating temperature range	0 to 40°C (no condensation)			
Storage temperature range	-20 to 60°C (no condensation)			
Mass	Approx. 1.5 kg			

When the LH71A general-purpose applications or milling machine function are selected (**GENERAL** setting in the model type selection mode of the basic settings)

Function \ Model name	LH71A-1	LH71A-2	LH71A-3
Display axes	1-axis	2-axis	3-axis
Multi datum point	150		
Bolt hole circle	-	Displays coordinates for opening equidistant holes along the perimeter of a designated diameter	
Simple R cutting	-	Display coordinates for simple R cutting	
Line hole	-	Displays coordinates for opening equidistant holes along a designated straight line	
Touch sensor	Combined with the touch sensor (sold separately), the datum plane can be detected, etc. 1. Hold function 2. Load function 3. Centering function		

When the LH71A lathe function is selected

(**LATHE**) setting in the model type selection mode of the basic settings)

LH72

Function	Model name	LH71A-3	LH72-3
Display axes		2-axis display (2-axis or 3-axis input)	
Tool offset		99	
Measuring unit input addition		2-axis addition display is available	
Display hold		The displayed value can be held and the tool coordinate entered.	