

LY51

Multifunction display with various replaceable expansion I/O boards

- Compact design. Suitable for panel-mounting.
- Selectable display resolution
- Five different replaceable I/O boards. Up to 3 boards can be installed at a time
 - Comparator (Relay output type) • RS-232C
 - Comparator (Open collector output type) • A/B phase output
 - BCD (Open collector output) *Only one board of a kind can be installed in LY51.
- Reset/preset/recall
- Peak hold function for measuring max./min./peak-to-peak values.
- ADD/SUB function ■ Zero point detection
- Data latch ■ Data storage
- Linear error compensation
- Various controls and data analyses by PLCs and computers
- Inch/metric display



Specifications

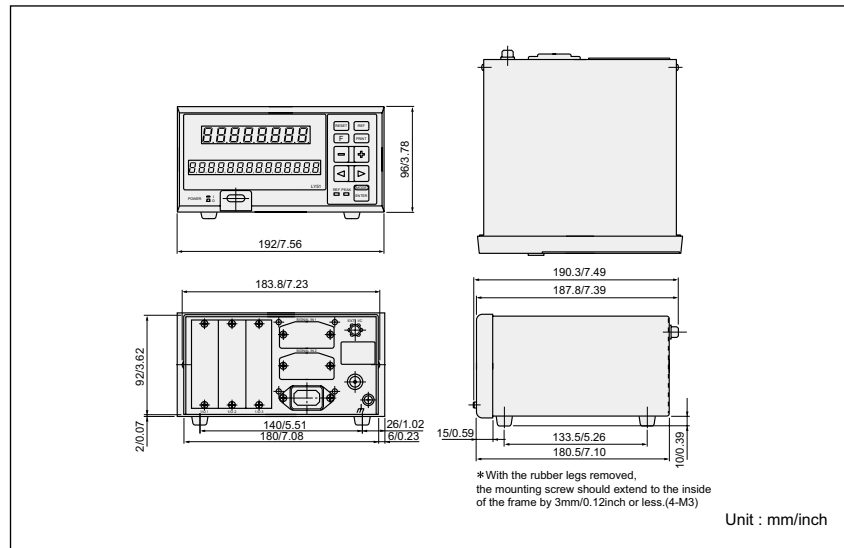
Model	LY51	
No. of connectable axes	2	
No. of display axes	1	
Display	Main	7 digits, LED display (leading zero suppress, floating minus sign)
	Aux	Two 7 digits, green LED display (leading zero suppress, floating minus sign), 16 digits message display
Display resolution	Varies with the transducer (0.1 μm with DE-B gauge)	
Max. response speed	Varies with the transducer	
Reset/Presel/Recall	By key operations or external input	
Peak hold function	Max./ min./ peak-to-peak values	
ADD/SUB	A+B, A-B, B-A	
Linear error compensation	When table moves a certain distance, a unit of compensation value is added or subtracted for linear compensation	
Zero point detection	Used with a transducer having a zero point, LY51 detects the zero point	
Data latch	Output latch and display latch	
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. Transducer 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%	
Power consumption	30 VA	
Mass	Approx. 2 kg/ 4.41 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).

*LY51's circuit ground is insulated from its chassis but like insulation is not provided for some gauge or scale units connected with LY51.

Care must be used when connecting a positiveground circuit.

Dimensions



Expansion I/O boards(Optional)

BCD Unit LZ51-B	Output	7-digit parallel data (4 bits x 7 digits), sign (1 bit), READY signal (1 bit), positive/negative logic selectable
	Electrical	Open collector (48 VDC max.); Ic=300 mA Output IC: SN75468NS
	Latch input	5 to 24VDC photo coupler; BCD output alone or both BCD output and display can be latched
Comparator Unit LZ51-K/R	Comparison data	Current value, max. value, min. value, p-p value
	Upper/lower limits settings	Selectable from max. of 16 sets (max.) of data (1 set consists of 1 to 4 comparison data)
	Go/No Go evaluation	5 points, Open collector (24 VDC max.); Ic=300 mA; Output IC: SN75468NS; relay output
	Ext. input	5 VDC to 24 VDC photo coupler
RS-232C Unit LZ51-C	Transfer rate	600, 1200, 2400, 4800, 9600, 19200 bps
	Stop bit	1 or 2 bits
	Parity	Odd, even, no parity
	Data length	7 or 8 bits
	Data processing speed	20 data/ s (at 9600 bps)
A/B phase Unit LZ51-H	A/B phase output (1st or 2nd axis) Differential 75113 and open collector 7407	

Mounting window

