

DYNAMIC
AND VERSATILE
EMBEDDED
CONTROLLER

LH Controller



LH is the latest dynamic and versatile embedded controller from IPA. The compact feature packed controller can be used for a variety of applications. Starting from very basic hopper/tank weighing, this has features like crane weighing system - with two independent loadcell inputs, multiple communication ports, analogue outputs and a host of other features. It is also geared to take up customized applications and would soon be out with belt scale and bagging system functions. The controller is designed to work in harsh industrial environments. Most of the attributes are fully programmable through the keypad. The indicator is basically available in the panel mounted version but can also be built into as a wall mounted system also.

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Technical Specifications

Parameter	Min.	Typ.	Max.	Unit
Power Supply				
Supply Voltage	12	24	28	V DC
Power Consumption	-		15	W
Environmental				
Operating Temperature	-10	25	60	°C
Storage Temperature	-20	—	80	°C
Load Cell Input				
Input type	4 wire, upto 2 channels			
Excitation Voltage	4,8	5	5,2	V DC
Excitation Current	-	-	250,0	mA
Input Range	- 18,0	-	+18,0	mV
Linearity Error		±0,005		% FS
Full-scale Drift	-	2	-	ppm/°C
ADC Converter	24- bit Sigma Delta Converter			
Conversion Rate	upto 960 Hz.			
Internal Resolution	1 in 83,88,608 Counts			
Display Range	- 9999 to 99999			
Digital Inputs				
Number of inputs	4 nos.(Expandable to 6 Nos.- optional)			
Input Type	Opto-isolated			
Relay Outputs				
Number of outputs	6 nos. (2 numbers with NO and NC. 4 Nos. with NO)			
Contact Type	2 nos. with NO and NC contacts and 2 nos. with NO contact.			
Contact Rating	3A @ 240VAC, 5A @ 28VDC			
RS485 Communication				
Number of channels	Up to 2 nos. (Optional)			
Bus Type	Half- Duplex			
Baud Rate	9600	-	115200	baud
Protocols	Modbus RTU slave or Tx only ASCIIString.			
Analog Outputs				
Number of channels	Up to 2 nos. (Optional)			
Type	2 port isolated, 4 to 20 mA current output.			
Field supply	24	24	40	V DC
Non-Linearity	-	0,1%	-	%FS
Resistive Load	-	-	500	W
Analog Input	2 no. (0-5V) (Optional)			
Frequency Input	1 No. (10 Hz to 2khz)			
HMI Interface				
Display	7 Digit, 7 segment display			
Annunciations	8 nos. LED			
Keypad	6 push-button keys			
Ingress Protection	IP 55			

Optional Features

- 1 Storage memory of up-to 16Mbit.
- 2 Battery backed-up RTC for date and time.
- 3 One or both of the RS485 communication channels can be replaced by
 - a. USB host interface for printer, barcode scanner, memory stick etc.
 - b. USB device interface for PC communication.
 - c. Ethernet communication interface.



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