

LS01210

Load Indicator



Introducing the LS01210 - the new little genie with power packed features. Designed with a bright white OLED display and more compact, it beats all its peers by a mile.

Powered by a 23-bit Sigma-Delta Analog-to-Digital Converter that is capable of updating at 960 samples per second, the LS01210 is geared to tackle a wide range of applications in the Process Weighing domain.

With four digital inputs and four digital outputs, it is also equipped to support the 6-wire load cells.

FEATURES

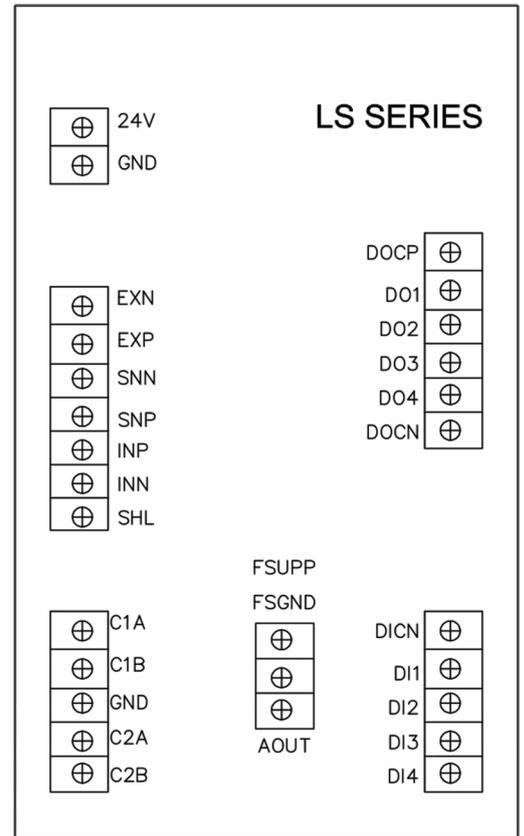
- Dynamic Filter
- Analog Output
- 2 Communication Ports
- OLED Display
- 4 Set Points
- Supports 6 Wire Load Cell



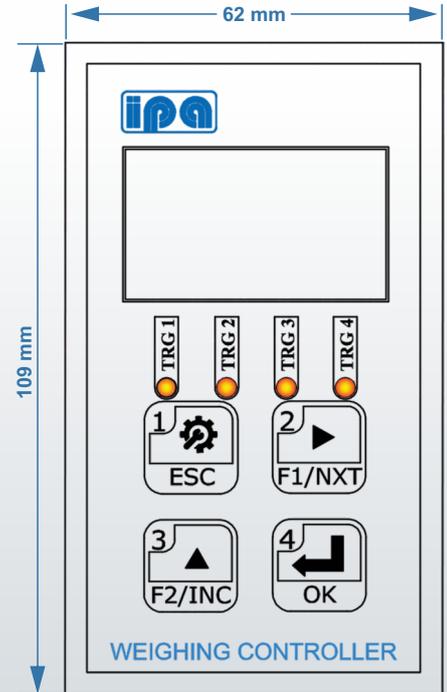
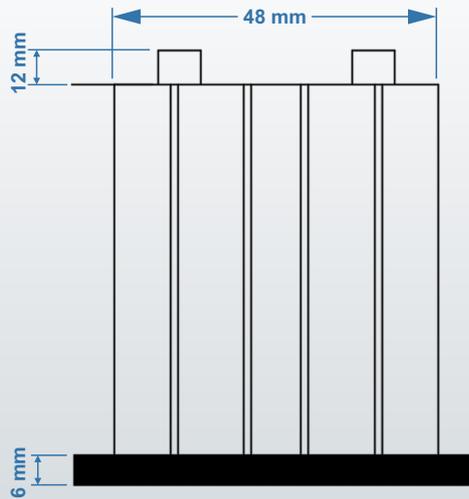
Specification

Parameter	Min.	Typ.	Max.	Unit
Power Supply				
Supply Voltage	12	24	28	V DC
Power Consumption	-	-	2	W
Environmental				
Operating Temperature	5	-	70	°C
Load-cell Input				
Input type	6-wire, ratio metric.			
Excitation Voltage	4.9	5	5.1	V DC
Excitation Current	-	-	250.0	mA
Input Range	-18.0	-	+18.0	mV
Linearity Error	-	±0.02	-	% FS
Full-scale Drift	-	0.001	-	%/°C FS
ADC Converter	24-bit Sigma Delta Converter			
Conversion Rate	Max. 960 Hz			
Internal Resolution	1 in 83,88,608 Counts			
Maximum Display Range	-99999 to 999999			
Digital Inputs				
Number of inputs	4 nos. (Programmable functions)			
Input Type	Opto-isolated			
Digital Outputs				
Number of outputs	4 nos. (Programmable conditions)			
Output Type	Opto-isolated, low-side switch			
Contact Rating	3A @ 240VAC, 5A @ 28VDC			
RS485 Communication				
Number of channels	2 nos.			
Bus Type	Half-Duplex			
Baud Rate	9600	-	115200	baud
Protocols	Modbus RTU slave or Tx only ASCII String.			
Analog Output				
Number of channels	1 no.			
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	
HMI Interface				
Display	128x64, 1.54", OLED Display			
Annunciations	4 nos. LED			
Keypad	4 push-button keys			
Other Features				
Peak-hold function				

Connector Block 1: Power		
1	24V	24V DC Positive supply
2	GND	Power supply ground
Connector Block 2: Load-cell Input		
1	EXN	Negative Excitation
2	EXP	Positive Excitation
3	SNN	Negative Sense
4	SNP	Positive Sense
5	INP	Positive Input
6	INN	Negative Input
7	SHL	Shield
Connector Block 3: RS485		
1	C1-A	RS485 Channel 1 – A (-)
2	C1-B	RS485 Channel 1 – B (+)
3	GND	Ground
4	C2-A	RS485 Channel 2 – A (-)
5	C2-B	RS485 Channel 2 – B (+)
Connector Block 4: Current Output		
1	FSUPP	Field supply (24V DC)
2	FSGND	Field supply Ground
3	IOUT	4-20mA Current Output
Connector Block 5: Digital Outputs		
1	DOCP	Digital Output Common Positive
2	DO1	Programmable Digital Outputs
3	DO2	
4	DO3	
5	DO4	
6	DOCN	Digital Output Common Negative
Connector Block 6: Digital Inputs		
1	DICN	Digital Input Common Negative
2	DI1	Programmable Digital Inputs
3	DI2	
4	DI3	
5	DI4	



Terminal Details



Top View

Front View

Cut Out Dimension: 49mm x 96mm

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