SPARK
Drives & Automation

LOAD CELL TRANSMITTER – Analog Output

24VDC, 0…10VDC and 4…20mA Analog Output, DIN Rail

Load cells are an essential portion of many machines, used for measuring weight, load, and tension. SPARK DNA's Analog Load cell transmitter plays a vital role in converting the output of load cells which is normally in the range of mV (with uV sensitivity) into 0 to 10Vdc and 4…20mA output with 12-bit resolution without losing the sensitivity and preserving the accuracy. Hence the output of the Load Cell Transmitter can be easily interfaced to standard controllers like PLCs, Microcontrollers.

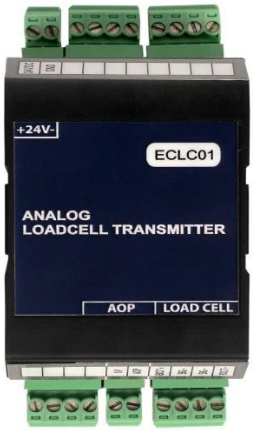

Image of Load Cell Transmitter

Specifications:
- 12Vdc / 24Vdc Supply Voltage
- Any Load Cell from 1Kg to 1000Kg
- 10 Samples / sec.

Output options:
- 0 – 10Vdc, 16-bit Resolution
- 4…20mA, 16-bit Resolution

Features:
- Start/Stop pin, Tare pin

Mounting Options:
- DIN Rail Mount.

It has an inbuilt high resolution Load Cell Converter with a sampling frequency of 10SPS, which means that user can get an updated output for every 100ms.

- Power LED indication available.
- Separate Start/Stop Control pin provided.
- Separate Tare Input pin provided.

Ordering Info

Depending on resolution requirements and output type needs, we provide below models.

S.no	Model No	Output type	Output Specification
1	LCT01-01	Analog Output	0…10 VDC, 16-bit Resolution. 4…20mA, 16-bit Resolution.

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Coimbatore, Tamilnadu, India 641035.

Mechanical Characteristics

Operating temperature	:	0...+65 (°C)
Size (l*b*h)	:	100*45*50 mm
Housing	:	DIN Rail ABS Plastic Enclosure
Weight	:	70grams.

Analog Output Module (Model no: LCT01-01)

SPARKDNA LCT01-01 series of Load Cell Transmitters are specially designed to read the output of any standard Load Cell, which is normally in the range of 0 to 10mV and to provide an equivalent output of 0 to 10V and 4...20mA with 16-bit resolution, which can be easily read by PLCs.

Connector Info

Pin numbers mentioned are from left to right.

TOP SIDE CONNECTOR

PIN#	CONNECTION
SUPPLY CONNECTION	
1	24Vdc Supply
2	0V
DIGITAL INPUT PIN	
3	Tare Input
4	Reserved

BOTTOM SIDE CONNECTOR

PIN#	CONNECTION
4...20mA OUTPUT	
5	4...20mA Current output
6	Current return
0...10VDC ANALOG OUTPUT	
7	0 – 10VDC Analog Output
8	Ground – 0V
LOAD CELL CONNECTION	
9	Excitation +
10	Signal +
11	Signal –
12	Excitation -

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