LOADCELL TRANSMITTER

INTRODUCTION

This is a load cell transmitter. It is to be used for interfacing load cell sensors with different types of instruments which accept standard analog inputs.

Up to 2/4 load cell can be connected with the instrument.

Transmitter provides excitation voltage necessary to Load cell sensors, amplifies low mV signal received from sensor and transmits it from Field. It helps in reducing noise.

General specifications of transmitter:

1. Operating supply 24 VDC
2. Output: 0 – 10V/0-4 V DC or 0-20 mA/4-20 mA
3. Load Cell Excitation: +10V DC
4. Dimension: 75mm L x 45Wmm x 123Dmm
5. Enclosure: General purpose
   Made up of Plastic
   Din rail mounting type

DESCRIPTION:

Transmitter is built using differential instrumentation amplifier. It generates onboard precision excitation supply.
The unit gives Excitation Voltage (10V DC) to Load Cell sensors. It takes sense signal from load cell sensor. Standard output signal (Voltage or current) is generated proportional to sense signal (weight applied on load cell sensor)

Connection Detail:

Pin No	Description
1	EX -
2	EX +
3	SENSE +
4	SENSE -
5	O/P +
6	O/P -
7	24V -
8	24V +
9	SHIELD

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CALIBRATION PROCEDURE

One can do calibration through the potentiometers of f zero and span.

1. Switch on the instrument and allow 15 minutes of warm up time before starting calibration.
2. Connect the load cell to be used for the weight measurements at the load cell input terminal**.** (See the CONNECTION DETAILS for the same.).
3. For Zero-calibration, there should be no load (weight) on the weigh-platform.
4. Set output at desired value using Potentiometer for Zero.
5. Now put known weight on the weigh-platform.
6. Set output at required value using potentiometer for Span.

One can repeat steps 3 to 6. You can also check output by putting different known weights on the platform.

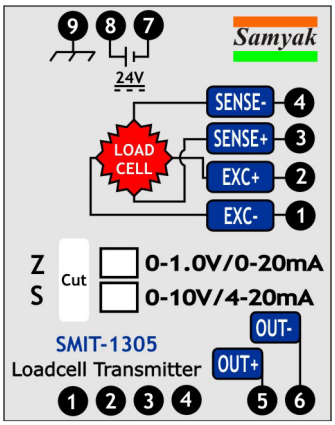
Unit is factory configured to give full scale output from full scale signal of 30 mV.

INSTALLATION GUIDE:

Unpack the instrument from the packing box carefully.

Make the connection as shown in connection Diagram.

Follow connection diagram printed on the unit for interfacing load cell sensor with the transmitter.



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