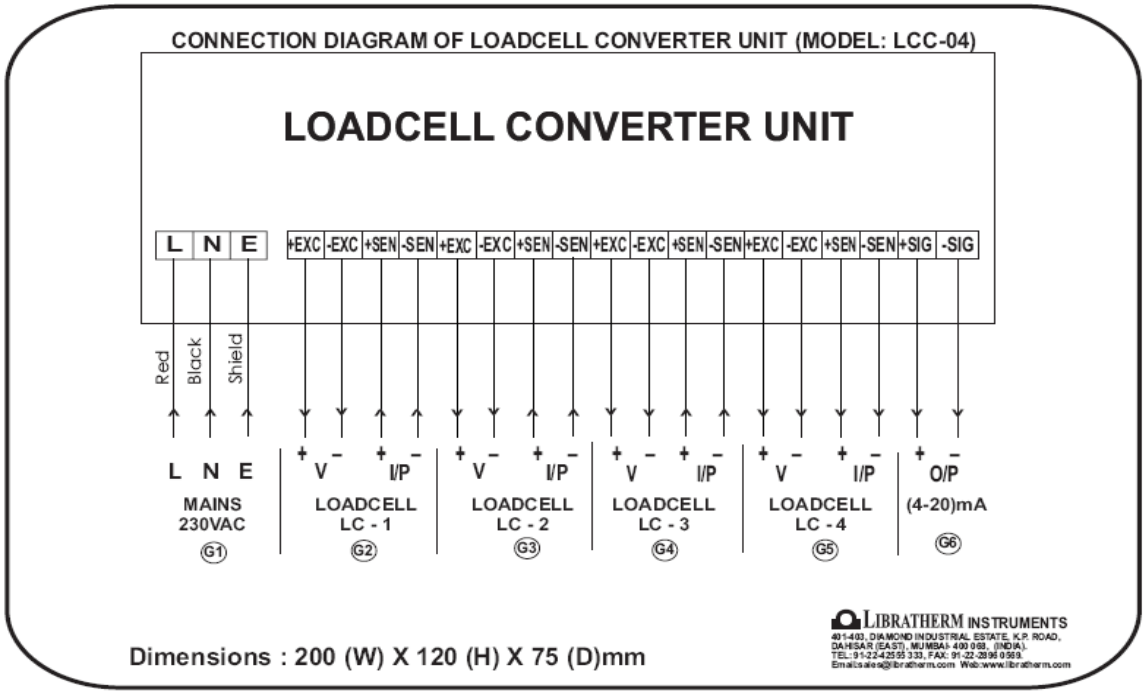
LOAD CELL to (4-20) mA CONVERTER

LCC-04 **LCC-10**

PRODUCT DESCRIPTION:

Libratherm offers these two models LCC-04 and LCC-10 to convert the load cell input to equivalent 4-20 mA output. Both the models can accept either single or up to four load cells – internally looped for parallel connections to give resultant and proportional 4-20mA signal as the summation / average of all the connected load cells. Since (4-20)mA signal being less susceptible to electrical noise, it can be taken to the long distance over ordinary copper wires, which can be fed to the Digital Indicator, PLC, Computer or other host of interfacing devices in the control room.

The stable and sufficiently rated adjustable or fixed excitation voltage of 5 to 12VDC is generated internally to power the load cells. Internal ZERO and SPAN presets are available to tare the dead weight and also for onsite calibration of 4-20mA to improve the measurement range and resolution. The high input impendence instrumentation amplifier with ultra low drift gives stable output to maintain long term accuracy and stability of weight measurement in the batch weighing process industry. LCC-04 is available in IP65 field mount ABS enclosure and LCC-10 is available in DIN rail mount ABS enclosure. They operate on 230VAC +/-20% supply.



Technical Specifications:

Input	1 to 4 load cells
Excitation Voltage	5 to 12VDC @ max.200mA (Suitable for 1 to 4 load cells)
Output	Average output of all connected load cells in the form of 4-20mA proportional to calibrated range.
Output	Single 4-20mA @ RL max = 400 ohms
Accuracy	Absolute to the input.
Calibration	On site calibration facility through ZERO and SPAN presets accessible to the user.
Isolation	Input and Output are optically isolated - (3 - way isolation)
Mounting	LCC-10 --- 35mm DIN rail mount. LCC-04 --- Surface mount.
Supply	AC Supply: 230VAC +/-10%, 50/60Hz
Size	LCC-10 (60X75X110) mm. LCC-04 (200X120X75) mm. (IP-65 ABS enclosure)

Proposed scheme for tank weighing system using 3 or 4 load cells arrangement.