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>> Name of Mini Project:

Simple Digital Voltmeles Circuit with PCB using ICL 7107

» Block Diagram

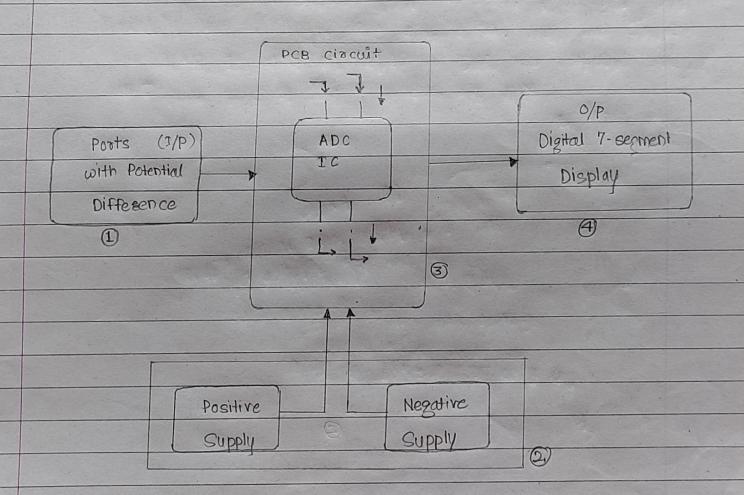


fig: Block Diagram Representation of Simple Digital Voltmelce circuit with PCB using ICL7107

Functional Characteristics

Block 1: 15/p1 Posts with Potential Difference

. The block deposements the i/p of the circuit testing

. It composites of two posts having potential difference with except to each other.

(Note: The maximum value of Potential Difference should not go beyond scope of the circuit capacity.)

Block 2]: poétire and Negative Supply

power supply is necessary for the circuit operation.

Thou supplies (one with 't're terminal & another with 't're) are given the Digital voltander circuit.

Block 3: PCB Circuit

The PCB circult is the main body of the project.

. It composites of all the circuit elements connected in proper manner

The Potential Difference between the 1/p posts in the Analog form.

Functional Characteristics

Block 1: IS/P 1 Posts with Potential Difference

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Block 2 1:

Positive and Negative Supply
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: PCB Circuit Block 3

> The PCB circuit is the main body of the project.

It composites of all the circuit elements connected in proper manner

It tollows a series of processes to get the Potential Difference between the i/p posts in the Analog form.

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This analog potential difference so obtained is converted into digital form by using Analog-to-Digital Converter Ic

The Digital value of potential difference so obtained is the sequired of from the pcB circuit.

Block 4

: [O/P] Digital Display

the digital value of potential difference obtained at the end of Block 3 functionality is sent to the digital display.

The digital 7-organent dicplay is capable of shouring the closex-almost value of potential difference between the two posts taken as input in Block 1

EDW/MP : Simple Digital Voltmeter : Circuit Diagram

