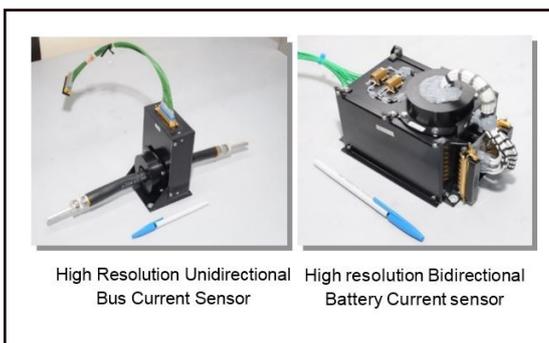


Saturating Core Unidirectional and Bidirectional Magnetic Current Sensor

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed Saturating Core Unidirectional and Bidirectional Magnetic Current Sensor for measuring high currents without magnetic foldback or TM loss during high pulsed currents.

Saturating Core Uni-Directional MCS (SUN-MCS) is a current sensor which uses saturating core approach for measuring currents in one direction. This approach ensures that the core remains in saturation for currents beyond design range and the secondary sense voltage will not read zero, instead it will indicate the high primary current flowing.

Saturating Core Bi-Directional MCS (SBIMCS) can measure currents in both the directions using a single core and two sense resistors, one for sensing each direction of primary current.



Salient Features

- ✦ High resolution current sensor.
- ✦ Measurement by saturating magnetic core with no closed loop compensations.
- ✦ Plug and play module with variety of specifications to choose.

Major Specifications

- ✦ SUN-MCS measures unidirectional current upto 150A.
- ✦ SBI-MCS measures bidirectional current upto 200A.
- ✦ No core foldback for larger currents also (for one direction in SBI-MCS).
- ✦ Bias power about 1.5W.

Technology Transfer

URSC/ISRO offers to transfer this technology of Saturating Core Unidirectional and Bidirectional Magnetic Current Sensor developed by URSC to industries in India with adequate experience and facilities. Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

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