Resistive Sensor Module features overview

Introduction

The Resistive Sensor Module card is used to simulate sensors which behave as variable resistors. It holds 12 programmable channels, each of them having a 20-bit resolution over the 0.5 to 200 k range. Each channel is rated for 1/4W dissipation into the programmed resistance.

The channels' electronic circuit is described in the resistive sensor section.

Up to 10 RSM cards can be inserted in one OP6200 chassis, although the reference model typically uses a maximum of 3 cards.

The board also has the following capabilities :

- Selection of termination voltage for each channel
- Over current protection

The board also supports the following features, which are common to all OP6200 I/O boards :

- Activity and status LEDs
- Battery voltage compatibility
- Cable Identification
- Firmware Update
- Module information
- Over-temperature detection
- Synchronization

Architecture Overview