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VRM- A2615

Product Datasheet

Overview:

The VRM-A2615 is a 6-channel Pt100 Measurement Board.

Features:

- 1). 6 channel platinum resistance thermometer (Pt100), measurement is possible. As soon as the power is turned on and/or as soon as the hardware is reset, default settings start temperature measurement.
- 2). Because a terminal block type two-piece connector is used, it is possible to remove just the terminal block and change the board without removing each of the thermocouple screw clamps from the terminal block. The terminal block does not prevent the removal of the adjacent board.
- 3). Can be set to take the moving average of the last four lots of A/D conversion values and calculate the temperature conversion values. Because it is the moving average, the most recent temperature conversion values, averaged for each sampling, can be obtained.
- 4). Disconnection of cables including thermocouples can be detected for each input channel. When disconnection is detected, an interrupt can be issued to the CompactPCI bus.

Specifications:

- Measurement method: 3 wire system
 - Connectable resistance thermometer: Pt1100
 - Temperature input range: -50°C to +100°C
 - Temperature conversion values:
 - 16-bit code binary format (minus numbers: two's complement)
 - -500 to +1000 (value to first decimal place x 10)
 - Resolution: 0.1°C
 - Overall accuracy: $\pm 0.75^{\circ}\text{C} \times 1$
 - Input bandwidth: Apx. 25Hz (-3dB)
 - Conversion rate: Apx. 100Hz for each channel
 - Sampling rate: Apx. 100Hz for all channels *2
 - No. of temperature input points: 6 points
 - Pt100 sense current: 1mA
 - Isolation method:
 - Between Pt100 input and CompactPCI bus system: Photo-coupler isolation
 - Between Pt100 input channels: No isolation
 - Disconnection detection: Yes (independent for each channel)
 - Connection terminal: 6-pin terminal block
 - Recommended wire size: 1.5mm² or less
 - Power Requirements: DC5V $\pm 5\%$, Typ. 0.62A
 - Board size: Single height (3U), single width (4HP)
 - Weight: 160g
 - Environmental Specifications:
 - Operating temperature range: 0 to 50°C
 - Storage temperature range: -10 to 60°C
 - Operating humidity range: 10 to 90% RH (non-condensing)
 - Storage humidity range: 10 to 90% RH (non-condensing)
 - Operating atmosphere: Minimum dust, must be free of corrosive gases
- *1- accuracy does not include accuracy and temperature characteristics for external components (platinum resistance thermometer, etc), not included
- *2- equipped with one A/D converter for all Pt100 input channels



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CompactPCI bus specifications:

- CompactPCI Standards:
 - PCI Local Bus Specification Revision 2.3 compliant
 - PICMG2.0 R3.0 CompactPCI Specification compliant
 - PICMG2.1 R2.0 CompactPCI Hot Swap Specification
- Full Hot Swap support
- Signaling Level: 3.3/5 V (TTL)
- Bit width: 32 Bits
- Address width: 32 Bits
- Clock: 33 MHz

