

## MST-0421

MWA ASC PCB

### Test: I2C verification

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Serial number:	001
Tester:	Julian Schneider
Date:	13 Dec 2010

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### Jig details

Use the I<sup>2</sup>C to USB Adapter to establish communications between the control PC and target device.

- MWA JIG-004 - I2C to USB Adapter

### Test procedure

1. Connect I2C jig and interrogate temperature monitor on PCB.
  - *Verify temperature is correct.* - yes
2. Warm and cool temperature monitor
  - *Verify readout changes.* - yes

After these tests are completed, install the PCB fully in its housing and install all 8 Ferrite 119-3419 components at R33 locations.

### Comments

Conversion Data of DS75 to Temperature:

- 9-Bit Data shifted by 3-Bit
- 1-Bit represents 0.5°C

Example:

188h => 110001000b => shift => 110001b => 49  
=> divide by 2 (0.5 °C per Bit) => 24.5 °C