

MST-0431

MWA dual octal temperature sensor

Test: I2CPC test

Serial number: 001

Tester: C.P.

Date: 8/12/2010

Jig details

Use the I²C to USB Adapter to establish communications between the control PC and target device.

- MWA JIG-004 - I2C to USB Adapter

Test procedure

Purpose of test at this level is to check that there are no shorts between adjacent channels and that there is connectivity and basic functionality of ADC.

1. Connect I2C2PC dongle to jig to interrogate all channels
2. Plug connector #1 into each input connector in turn
 - Check that the channels 1,3,5 & 7 read 0x000 (+/- 2) and channels 2,4,6 & 8 read 0xFFF (+/- 2)
3. Repeat with connector #2
 - Check for 0xA66 (+/- 0x20) on each channel
4. Other tests
 - Verify that the boards respond to the correct address
 - Do a bus scan and list addresses that respond:

Comments

00FF01

CON # 2

S948CR02 - 0A7B

S949CR02 - 0A7B

S94ACR02 - 0A7B

S94BCR02 - 0A7B

S94CCR02 - 0A7B

S94DCR02 - 0A7B

S94ECR02 - 0A7B

S94FCR02 - 0A7B

CON # 1

S948CR02 - 0000

S949CR02 - 0000

S94ACR02 - 0000

S94BCR02 - 0000

S94CCR02 - 0E6A

S94DCR02 - 0E69

S94ECR02 - 0E69

S94FCR02 - 0E69

WAPER

S968CR02 - 0A79

S969CR02 - 0A79

~~S960CR02 - 0A79~~

S96ACR02 - 0A79

S96BCR02 - 0A79

S96CCR02 - 0A79

S96DCR02 - 0A79

S96ECR02 - 0A79

S96FCR02 - 0A79

S968CR02 - 0001

S969CR02 - 0001

S96ACR02 - 0001

S96BCR02 - 0001

S96DCR02 - 0E67

S96ECR02 - 0E67

S96FCR02 - 0E67

S96FCR02 - 0E67