

# MST-0431

MWA dual octal temperature sensor

## Test: I2CPC test

Serial number:	002
Tester:	C.D.
Date:	8/12/10

### 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

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 0xFF ( +/- 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	CON # 2	CON # 1
BOTTOM	S948CR @ 2 - 0A7E S949CR @ 2 - 0A7E S94ACR @ 2 - 0A7C S94BCR @ 2 - 0A7C S94CCR @ 2 - 0A7C S94DCR @ 2 - 0A7C S94ECR @ 2 - 0A7C S94FCR @ 2 - 0A7C	S948CR @ 2 - 0000 S949CR @ 2 - 0000 S94ACR @ 2 - 0000 S94BCR @ 2 - 0001 S94CCR @ 2 - 0E6B S94DCR @ 2 - 0E6B S94ECR @ 2 - 0E6B S94FCR @ 2 - 0E6B
UPGR	S968CR @ 2 - 0A80 S969CR @ 2 - 0A80 S96ACR @ 2 - 0A80 S96BCR @ 2 - 0A81 S96CCR @ 2 - 0A81 S96DCR @ 2 - 0A81 S96ECR @ 2 - 0A81 S96FCR @ 2 - 0A81	S968CR @ 2 - 0001 S969CR @ 2 - 0001 S96ACR @ 2 - 0001 S96BCR @ 2 - 0001 S96CCR @ 2 - 0E71 S96DCR @ 2 - 0E71 S96ECR @ 2 - 0E71 S96FCR @ 2 - 0E71