VN202 Calibration Tests

Prologue

These tests were carried out in depth during the design and pre-production stages of the VN202. These current tests were carried out to confirm there were no changes over the years as components have been replaced with more modern versions.

It is assumed that all VN202's are identical within the constrictions of component tolerances. Tolerances have improved since 1995 so theoretically the product should be more reproducible.

The test used a Micocal, a DVM. and an external PSU.

Using a battery no "low battery" symbol visible.

7mV input max position on Calibration control Reading 20.9%
13mV input min position on calibration control reading 17.6%

This is the maximum range of acceptable sensors.
The nominal output is 10.5mV.

Battery check.
An input of 10.0mV was used and the sensor calibrated to 21% +/ 0.1%

The PSU was set at 9v and then reduced. The PSU output was measured with a DVM

9v	Cal 21%	
8v	Cal 21.1%	
7.4v	Cal 21.1%	Lo Batt symbol just visible
6.0v	Cal 21.0%	
5.5v	Cal 16.4%	
5.0v	Cal 13.4%	

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