

VANDAGRAPH

COMPANY OPERATING PROCEDURE

VN202 EMC upgrade VM3/COP/40.60

Date: 22-05-09

Revision Date: 13-Apr-11

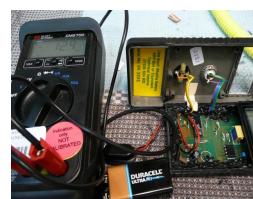
Issue: 1

Test & Equipment Required

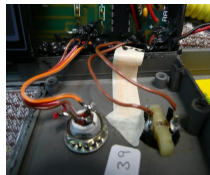
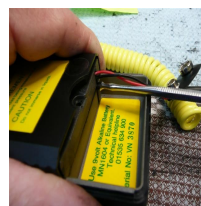
Digital Multimeter
VN202 Current monitor

Method

1. Check the unit needs upgrading.
Using the current checker the current whilst on should be around 2.0mA
In the sleep position (OFF) it should be less than 2 microAmp

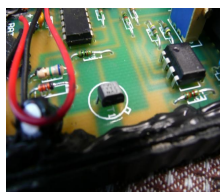


2. Remove the screw, near the battery compartment and using a blunt tool (e.g.screw driver) prise the top of the enclosure away from the base.

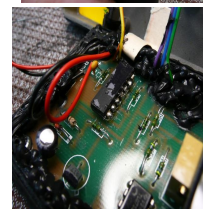


3. Take care not to jerk the top off and check the copper tabs are in place.

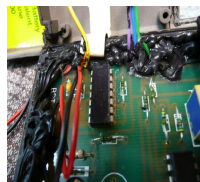
4. Move the battery leads as near as possible to the battery compartment



5. Bend the transistor parallel to the board



6. The conformal coating needs to be removed from the IC. This can be done with a small file. Care should be taken to ensure the pcb is not damaged and the transistor is avoided.



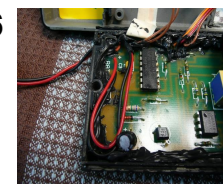
7. Add flux with the flux pen and tin the nearest 6 pins. Pin No 1 is the +ve supply and must not be touched.

8. Tin a length of wire and solder across the 6 terminals. Ensure pin 1 is not connected.



Cut the wire at the end of the IC

9. Add 9v PP3 battery and switch on. The reading should be 00.0 Adjust with potentiometer P1. Add a dab of locktite.



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10. Add a sensor and ensure it reads over the range (around 20.9%)
The potentiometer turned clockwise increases the reading. There is no -ve sign visible.
11. With the digits to the Right. Apply a small amount of silicone 10B around the periphery of the enclosure with a syringe and microtip so that when the top and bottom are added together the silicone forms a waterproof seal. Start at the side with the wires from the frontpanel and seal behind the copper strip.
12. Ensure the strip remains fixed to the front.
13. Fix the case together with the screw and clip the lugs at the other end (digits)
If necessary clamp the two sides together at the digit end.R
14. Remove excess silicone from around the case and inside the battery compartment.
15. If the unit fails any of the tests especially before sealing leave unsealed and bag and mark for repair. A new SRN must be completed as the total seal between pcb and base will need to be broken to effect a repair.

