

COMPANY OPERATING PROCEDURES

MicroStim - Testing & QA

VM3/COP/99.03

Date: 22-Jan-03

Revision date: 29-Jan-03

Issue: 3

Microstims DB's are supplied to Viamed fully assembled.

QA And Testing:

1. Ensure there is no physical damage to the unit or no marks to labels.
2. Remove the battery cover and connect a 9V PP3 (pt no. MS 1008) type battery.
3. Connect the Picoscope channel 1 to the microstim output sockets (red & black) using the microstim test cable.
4. Open file "microstim setup" and set the Picoscope to "run".
5. Set the intensity control to maximum. Push and hold the upper toggle switch to T.O.F. Ensure that the microstim gives 4 pulses of 0.2ms width at 500ms intervals (2 Hz). Pulse height should be adjustable from approx 1V (peak, leading edge) to 0V using the intensity control. Release the toggle switch.
6. Set the intensity control to maximum. Push and hold the upper toggle switch to D.B.S. Ensure that the microstim gives 3 pulses of 0.2ms width at 20ms intervals (50 Hz), followed by a gap of 750ms then again, 3 pulses of 0.2ms at 20ms intervals (50 Hz). Ensure that the intensity control varies the pulse height from approx 1V (peak, leading edge) to 0V. Release the toggle switch.
7. Set the intensity control to maximum. Push and hold the lower toggle switch to P.T.C. Ensure that the microstim gives pulses of 0.2ms width at 20ms intervals (50 Hz) for 5 seconds. The pulses should then stop of 3 seconds, restarting after this period at 0.2ms width and 1-second intervals (1 Hz). Ensure that the intensity control varies the pulse height from approx 1V (peak, leading edge) to 0V. Release the toggle switch.
8. Set the intensity control to maximum. Push and hold the lower toggle switch to 1 Hz. Ensure that the microstim gives continuous pulses of 0.2ms width at 1-second intervals (1 Hz). Ensure that the intensity control varies the pulse height from approx 1V (peak, leading edge) to 0V. Release the toggle switch.
9. This completes the microstim functional test. Disconnect the microstim, remove the battery and refit the battery cover. Ensure serial numbered & stock sheets are completed.