

DMS Stress Test ECG System – CardioScan Stress Test Tango M2 Interface Notes

To setup Tango M2 with the DMS stress system, simply follow the directions below.

1. Verify Correct RS-232 and ECG Trigger Cables

- **RS-232 Cable** – used to communicate with the DMS Stress Test ECG System. This cable enables the DMS Stress System to prompt Tango M2 when it needs a BP measurement, and allows the Tango M2 BP reading to be transferred to the DMS display and reports.
 - SunTech Part Number = 91-0013-01
 - Connection Ends:

DMS Connection
9 pin female

Tango M2 Connection
9 pin female



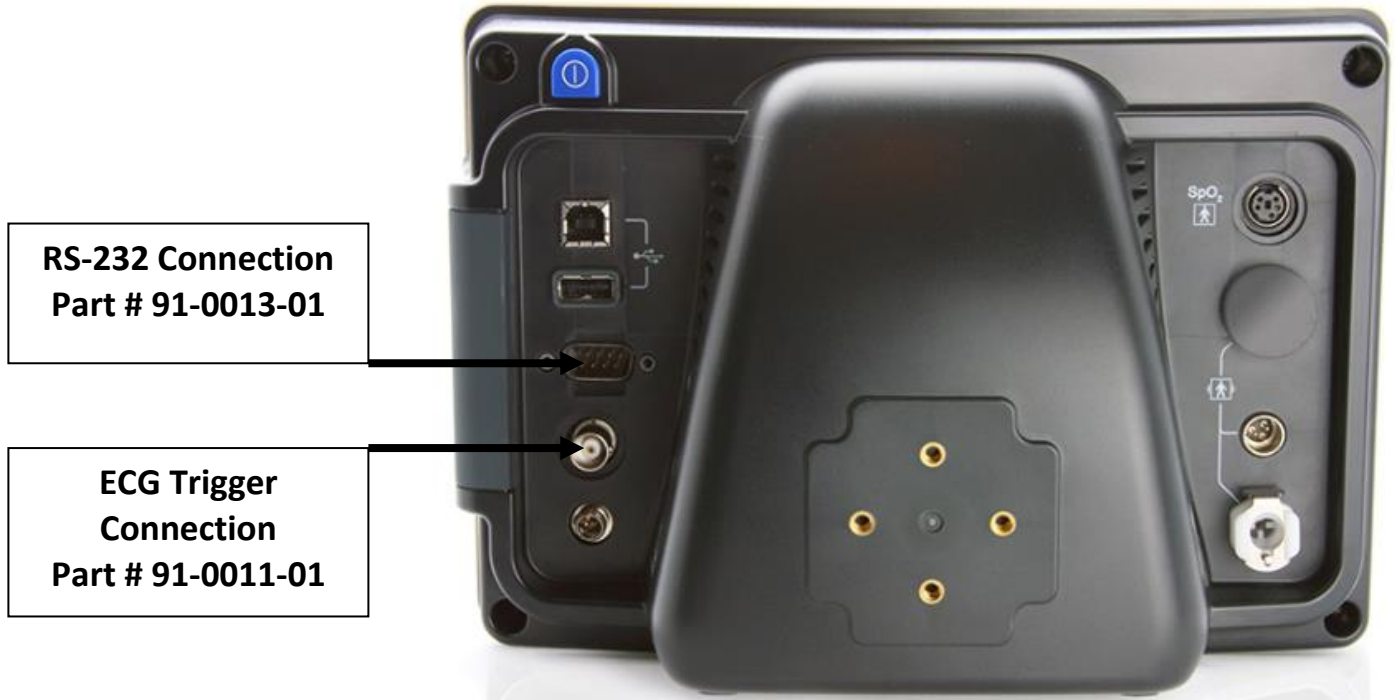
- **ECG Trigger Cable** – provides the ECG trigger signal from the DMS Stress System to the Tango M2.
 - SunTech Part Number = 91-0011-01
 - Connection Ends:

DMS Bluetooth ECG Receiver
Connection BNC male

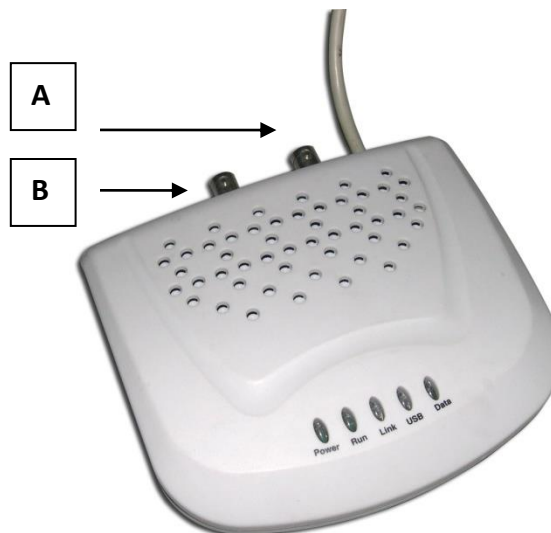
Tango M2 Connection
BNC male



Tango M2 Monitor



ECG Trigger Connection;
Port A or B can be used.



Bluetooth ECG Receiver provided by DMS

2. Connect the RS-232 Cable

From: The RS-232 connection on the rear panel of the Tango M2.

To: One of the COM ports on the back of the PC of the DMS stress system

3. Connect the ECG Trigger Cable

From: The BNC External ECG connection on the rear panel of the Tango M2.

To: The BNC port on the back of Bluetooth ECG Receiver of the DMS stress system

Note: Secondary port on the Bluetooth ECG Receiver is user for an oxygen consumption device.

4. Tango M2 Monitor Setup

- a. When the operating screen is displayed, press the **SELECT** button once. This will bring up the **MAIN MENU** screen.
- b. Using the UP or DOWN arrows, highlight **MONITOR SET UP** and press the **SELECT** button.
- c. Using the UP or DOWN arrows, highlight **STRESS SYSTEM** and press the **SELECT** button.
- d. Using the UP or DOWN arrows, scroll through the list until **SUNTECH** is highlighted and press the **SELECT** button to confirm the choice.
- e. Within the **CUSTOM SETUP**, select the **ECG Trigger** and change the Trigger to **Analog**.
- f. Using the UP or DOWN arrows, select **EXIT** twice to return to the operating screen.

5. DMS System Setup

- a. In CardioScan Stress Test window, select **TOOLS**, then System Settings, then select **Profile Setting**
- b. In System Settings screen, select **Device/GDT**
- c. **Com Settings** for Blood Pressure, choose the Com port that connects the computer to the Tango M2 monitor.
- d. Select **Test**, then for BP **Input Mode** choose "BP Monitor Input: One time for Each Stage".

FAQs for Tango M2

Q. The Tango M2 displays a status message. What does it mean and what do I do?

A. See the Quick Set-Up guide (that is attached to your Tango M2) or the Troubleshooting section in your User's Guide for details on the Status Message and solution.

Q. The Tango M2 monitor returns results of 0/0 after blood pressure measurements. What do I need to do to get a BP reading?

A. There are certain noisy conditions where the Tango M2 cannot accurately measure BP. When the Tango M2 encounters these situations, it returns a reading of 0/0. Placement of the microphone attached to the cuff is critical for reliable operation of the Tango M2. Follow the instructions in the **Cuff Tutorial** (located on the SunTech Medical website under Products → Tango M2) for correct microphone placement. Follow steps 1 and 2 in Conducting the Stress Test in the User's Guide to provide the best conditions to obtain a measurement.

Q. Can I use a heart rate or blood pressure simulator to test whether the Tango M2 is working correctly with my stress system?

A. You cannot use a heart rate or blood pressure simulator to test whether the Tango M2 is working with your stress system. The Tango M2 monitor requires that the ECG signal and the Korotkoff

sounds, collected by the microphone in the cuff, originate from the same source, meaning the patient.

Q. I cannot clearly see the Tango M2 display. How do I fix this?

A. If you cannot clearly read Tango M2, you can adjust the contrast of the display by following these steps:

1. When the operating screen is displayed, press the **SELECT** button 2 times. This will bring up the **MAIN MENU** screen.
2. Using the UP or DOWN arrows, highlight **MONITOR SET UP** and press the **SELECT** button.
3. Using the UP or DOWN arrows, highlight **CONTRAST** and press the **SELECT** button.
4. Using the UP or DOWN arrows, modify the contrast of the screen. When you are finished, and press the **SELECT** button to confirm the choice.
5. Using the UP or DOWN arrows, select **EXIT** twice to return to the operating screen.

Q. How can I get MAP on my Tango M2?

A. Register your Tango M2 Monitor online or through mail to receive MAP as a function on your Tango M2 monitor. Please note that due to FDA Regulations MAP is not available to the United States market.

On the web go to SunTechMed.com → Support → Sales Support → Product Registration

Q. How do I clean the Orbit-K cuff after a stress test?

A. You can do either of the following:

1. Use a medical grade mild disinfectant wipe on the cuff or spray a cleaning solution onto a cloth and wipe the cuff. Afterwards, lay flat or line dry.
2. Remove the bladder and microphone from the outer shell of the Orbit-K cuff. Machine wash the shell in warm water with a mild detergent (50-140°F or 10-60°C). Lay flat or line dry the cuff. Do not place the cuff in a dryer.

Q. My Tango M2 displays a message, “Please VERIFY CALIBRATION” or “Equipment Maintenance and Calibration Required.” What do I do?

A. Verification of Pressure Calibration

Equipment Required:

1. Calibrated electronic manometer or equivalent.
2. 500mL volume or the Orbit-K Adult Plus cuff wrapped around something that will not break or crush (no glass).
3. Hand Inflation Bulb with bleed valve.
4. Tubing, Tee pieces, and miscellaneous connectors or you can order the T-Tube Kit (SunTech Part # 98-0030-00).

Procedure:

5. When the operating screen is displayed, press the **SELECT** button 2 times. This will bring up the **MAIN MENU** screen.
6. Using the UP or DOWN arrows, highlight **MONITOR SET UP** and press the **SELECT** button.

7. Using the UP or DOWN arrows, highlight **VERIFY CALIBRATION** and press the **SELECT** button. The monitor will close its bleed valves and will display on its screen the pressure applied to the patient hose connector.
8. Verify the Tango M2 calibration by manually inflating and checking the manometer against the pressure reading on the Tango M2 display.
9. Once the calibration has been completed, use the UP or DOWN arrows to select **EXIT** twice and return to the operating screen.

Service Centers:

SunTech Medical, Inc.

507 Airport Boulevard

Suite 117

Morrisville, NC 27560-8200

USA

Phone: +1.919.654.2300

+1.800.421.8626 (toll free within US)

Fax: +1.919.654.2301

Email: CustomerService@SunTechMed.com