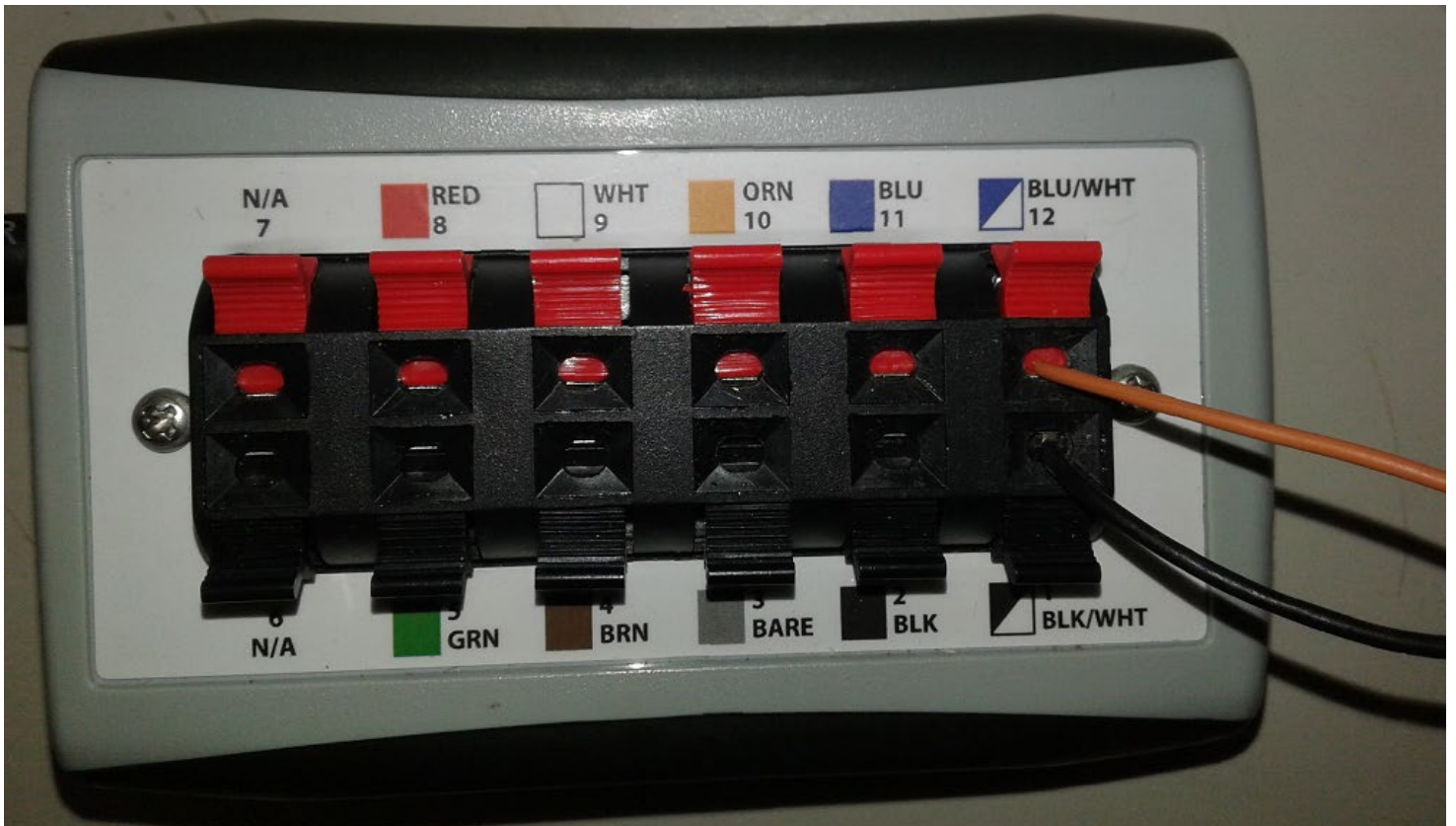


DFF3D B54 (Multi-Beam) Transducer Testing with Airmar TDT1000

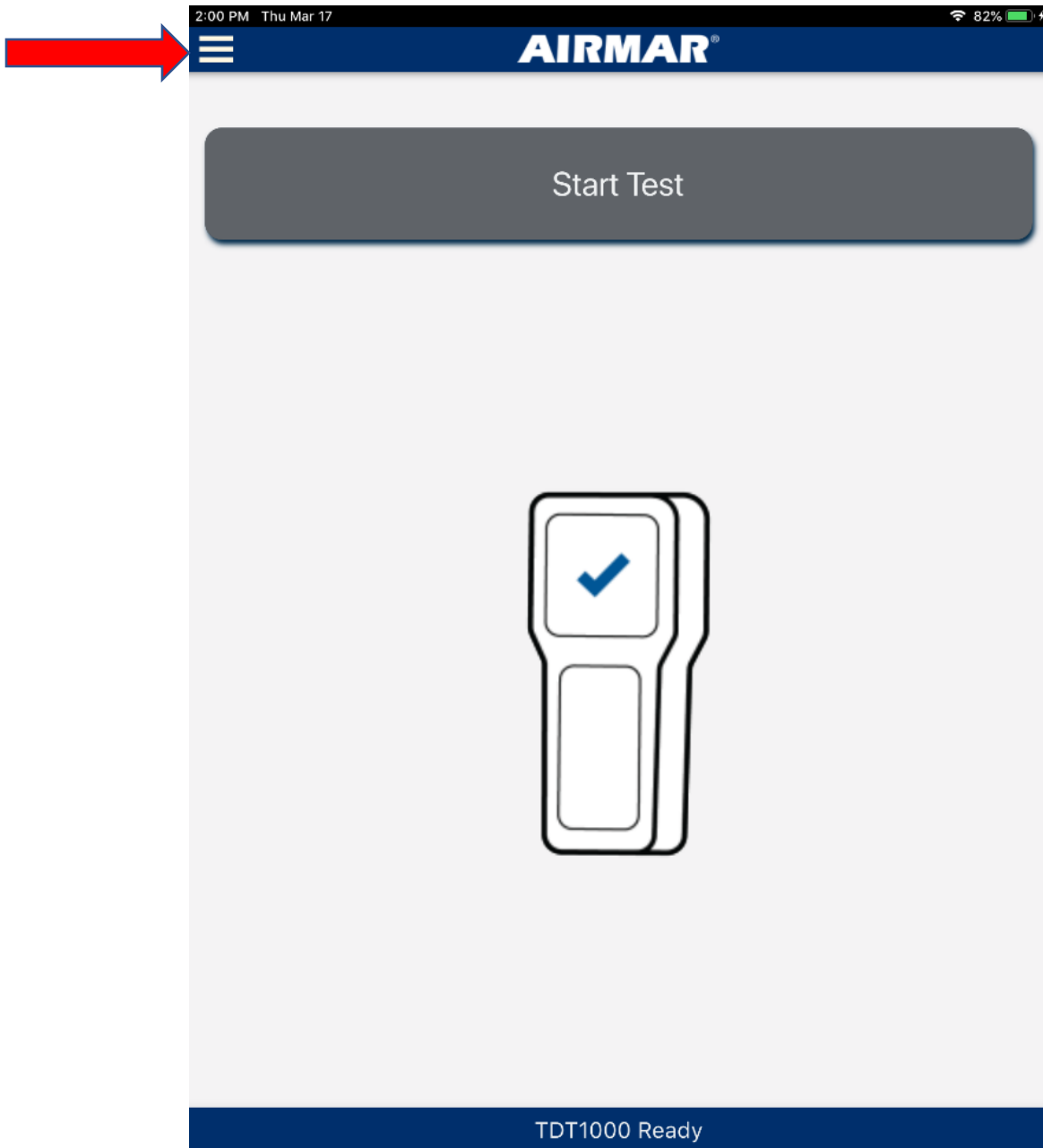
Ensure the transducer being tested is with the boat in the water or it has been properly placed upon the acoustic test block.

Connect the Airmar breakout box to the TDT1000 tester. Connect the black wire of the B54 transducer to **POSITION 1** of the breakout box and any of the other colored transducer element wires to **POSITION 12**.

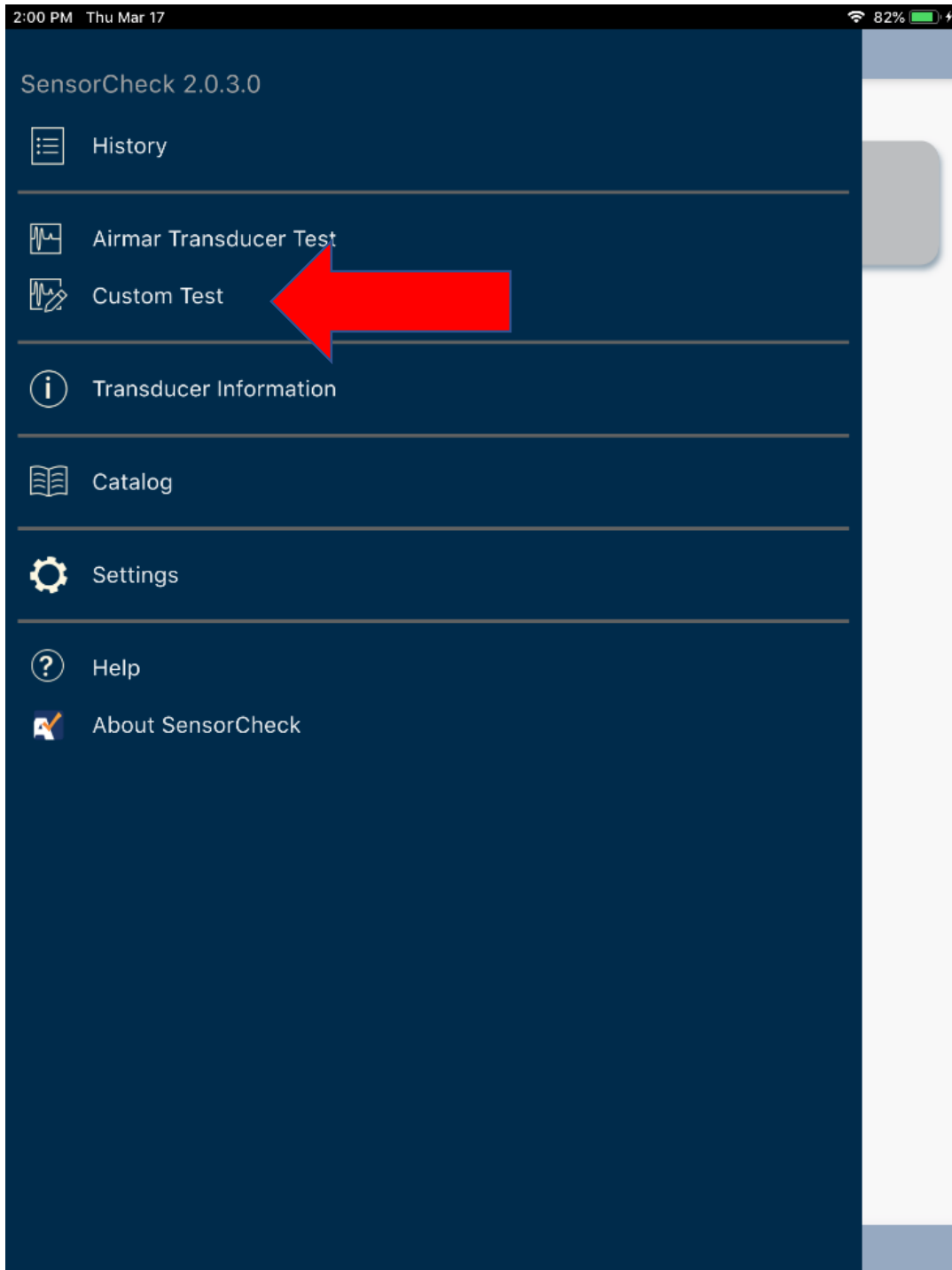


At present there is no reference data for this transducer stored in the TDT1000 so you will have to input testing parameters manually as follows.

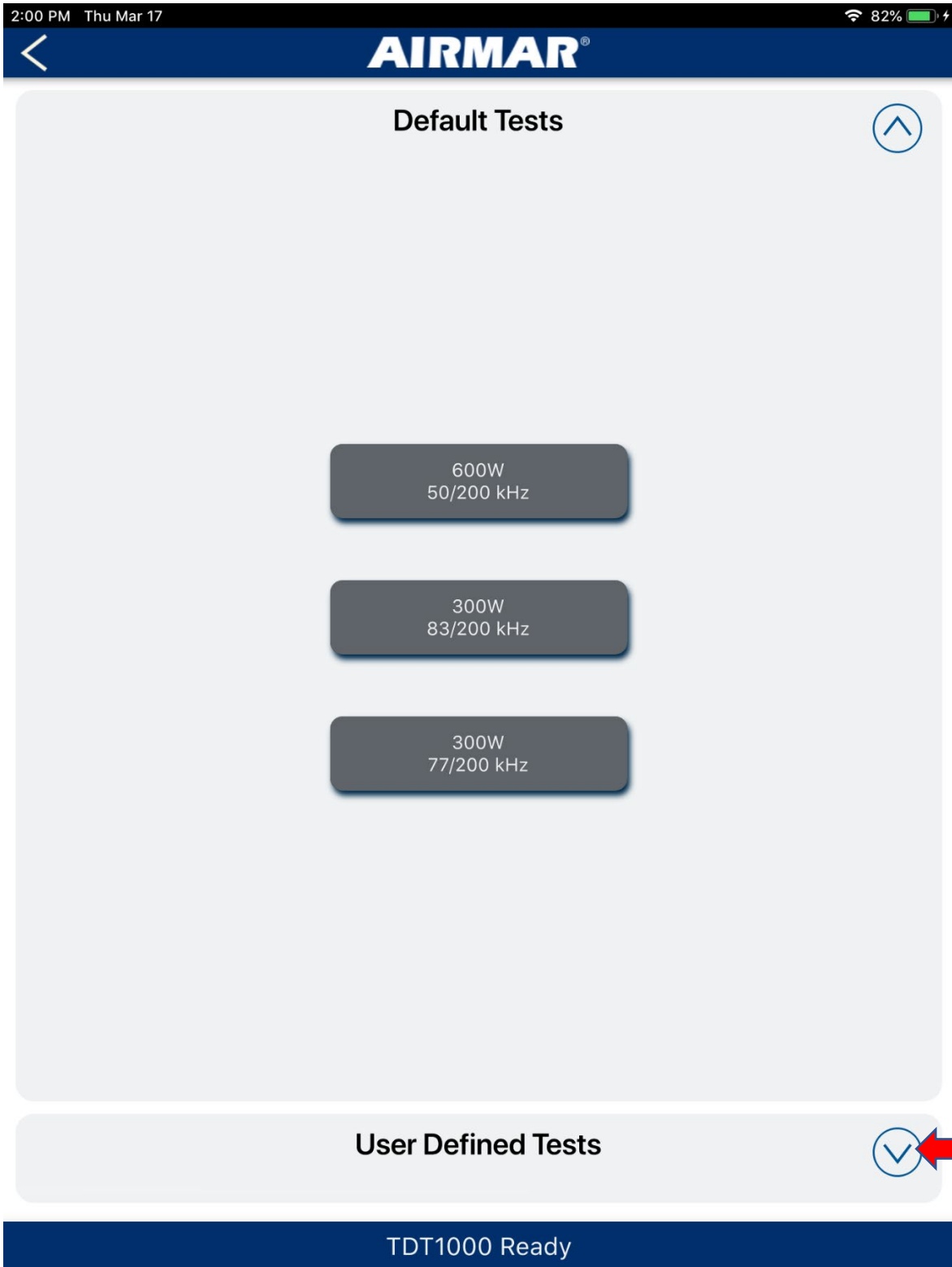
Once a link is established with the TDT1000, DO NOT press "START TEST"
Press the lines in the upper left corner of the page to open the MENU.



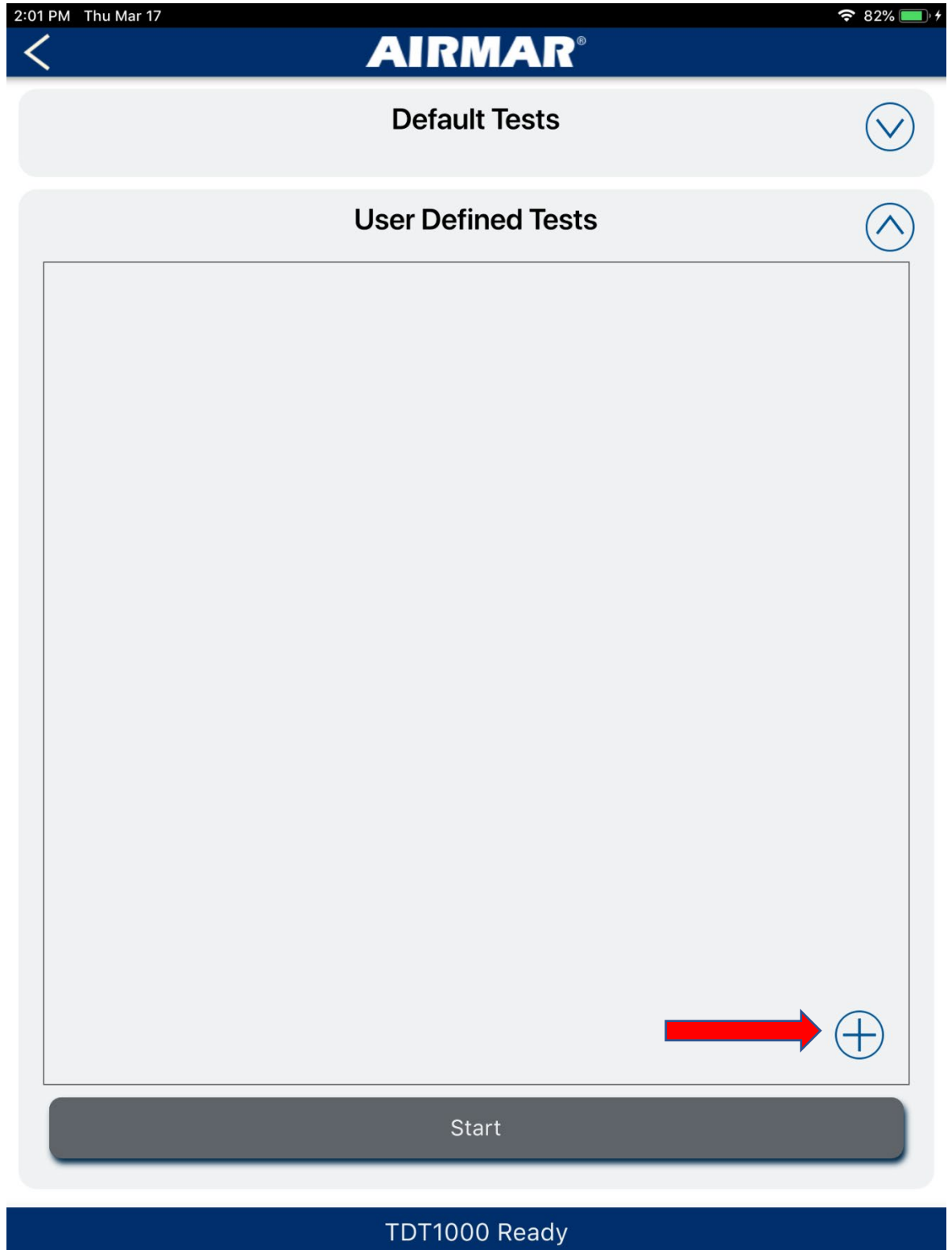
Press "Custom Test"



Select "User Defined Test"



Hit the PLUS sign below as shown below to add your own custom test.



Enter the B54 Test Parameters as shown below and select ADD

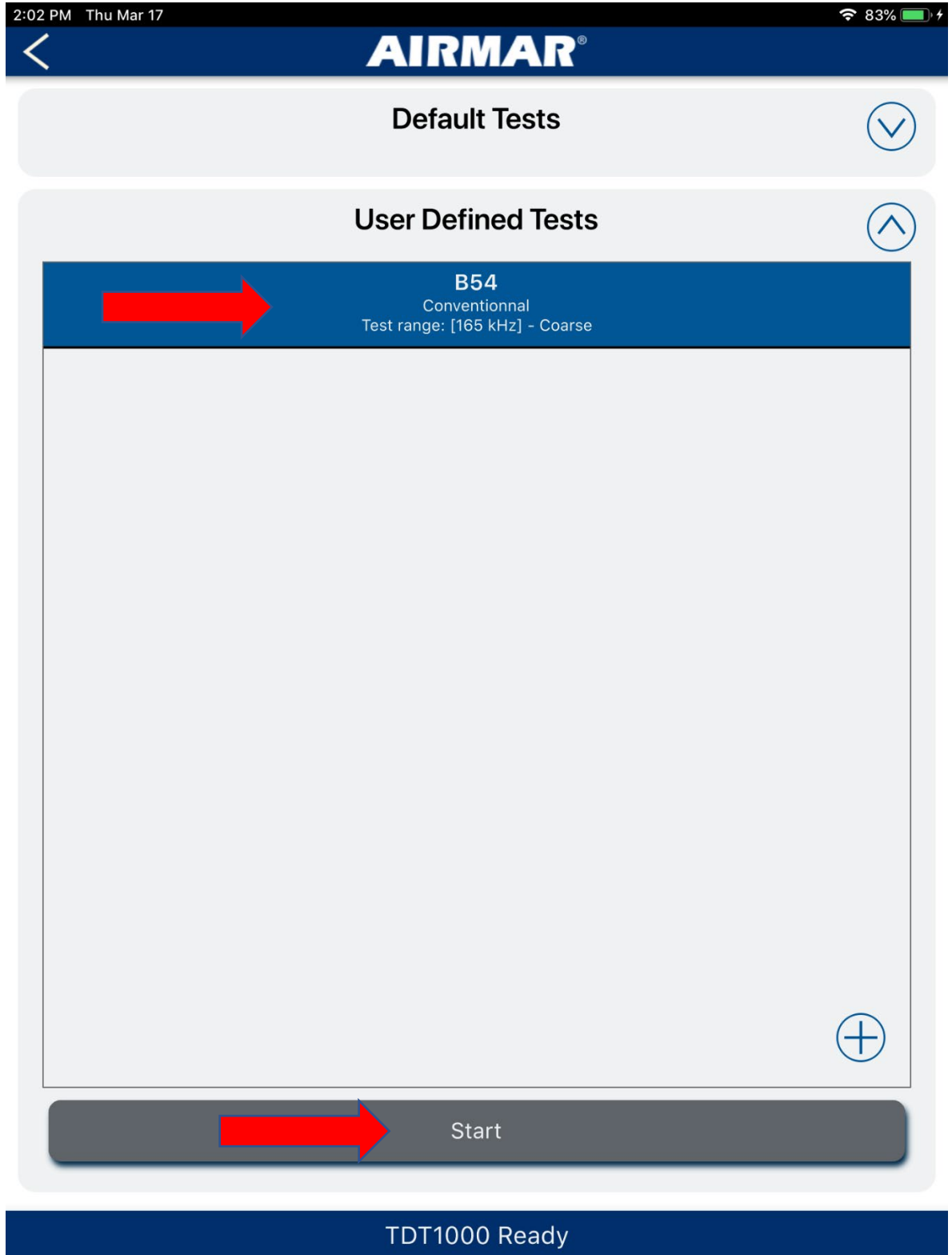
The screenshot shows the AIRMAR mobile application interface. At the top, the status bar displays the time as 2:02 PM on Thursday, March 17, and the battery level at 83%. The app header features the AIRMAR logo and a back arrow. Below the header, there are two sections: 'Default Tests' with a downward arrow and 'User Defined Tests' with an upward arrow. A modal dialog box titled 'New User Defined Test' is centered on the screen. It contains the following fields: 'Test Name' with the value 'B54', 'Transducer Type' with a dropdown menu set to 'Conventional', 'Frequency (kHz)' with the value '165', 'Resolution' with a dropdown menu set to 'Coarse', and 'Nominal Impedance (Ω)' with a dropdown menu set to '200 -> 650'. At the bottom of the dialog are two buttons: 'Cancel' and 'Add'. A red arrow points to the 'Add' button. Below the dialog, there is a 'Start' button. At the very bottom of the screen, a blue bar displays the text 'TDT1000 Ready'.

Field	Value
Test Name	B54
Transducer Type	Conventional
Frequency (kHz)	165
Resolution	Coarse
Nominal Impedance (Ω)	200 -> 650

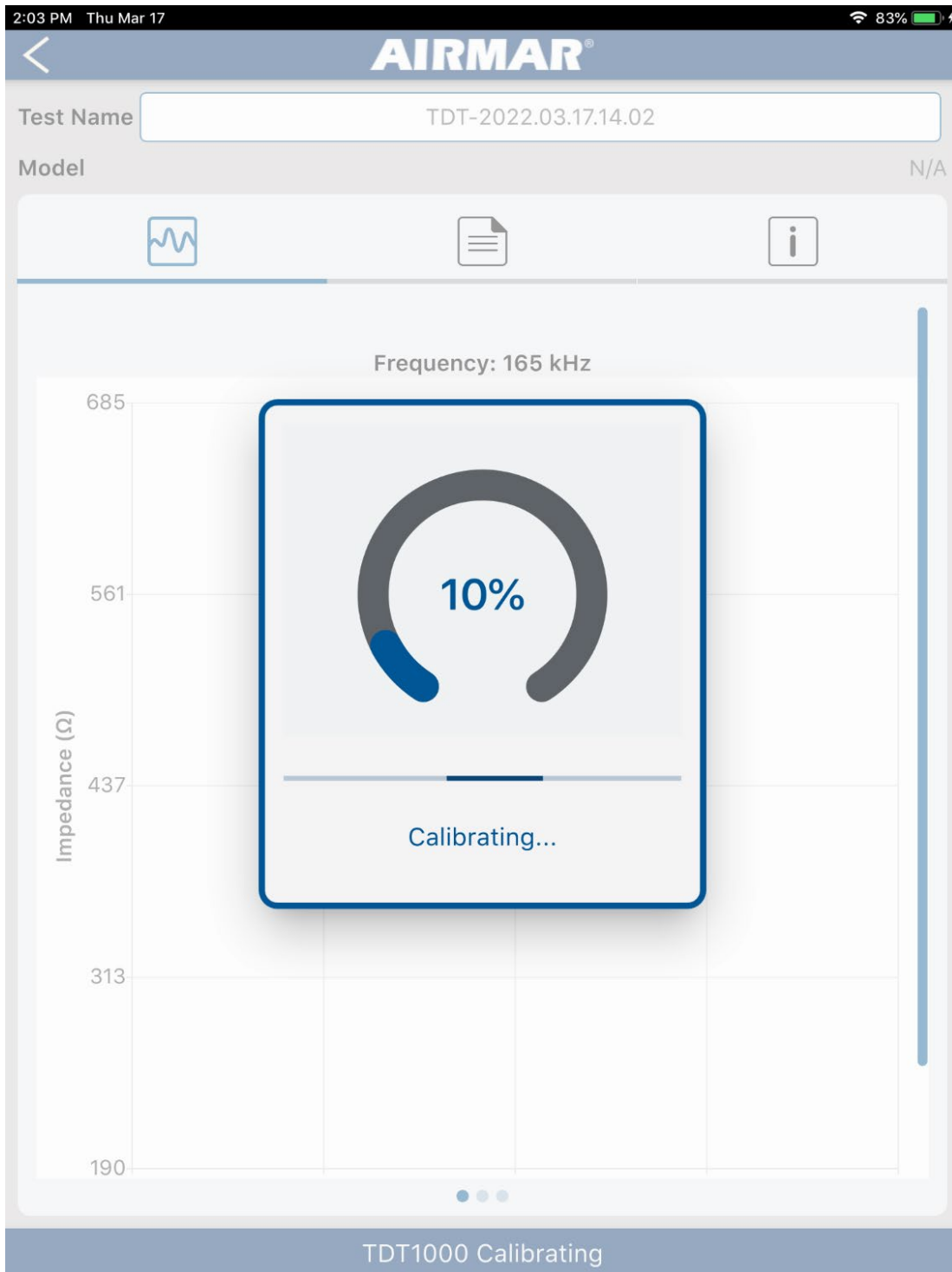
After Adding, you now have a test selection for the B54.



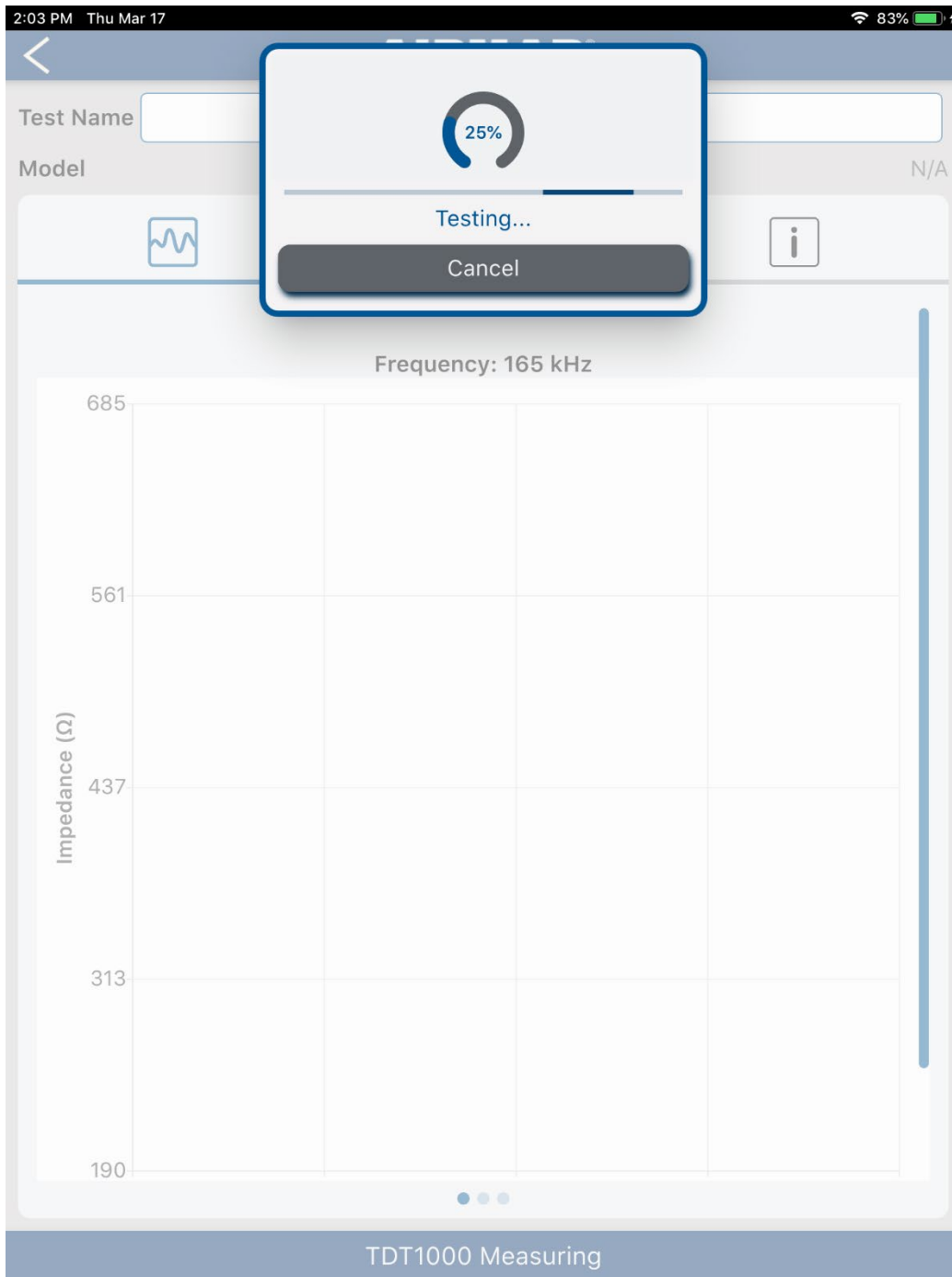
Select the new B54 selection, and hit START to begin testing



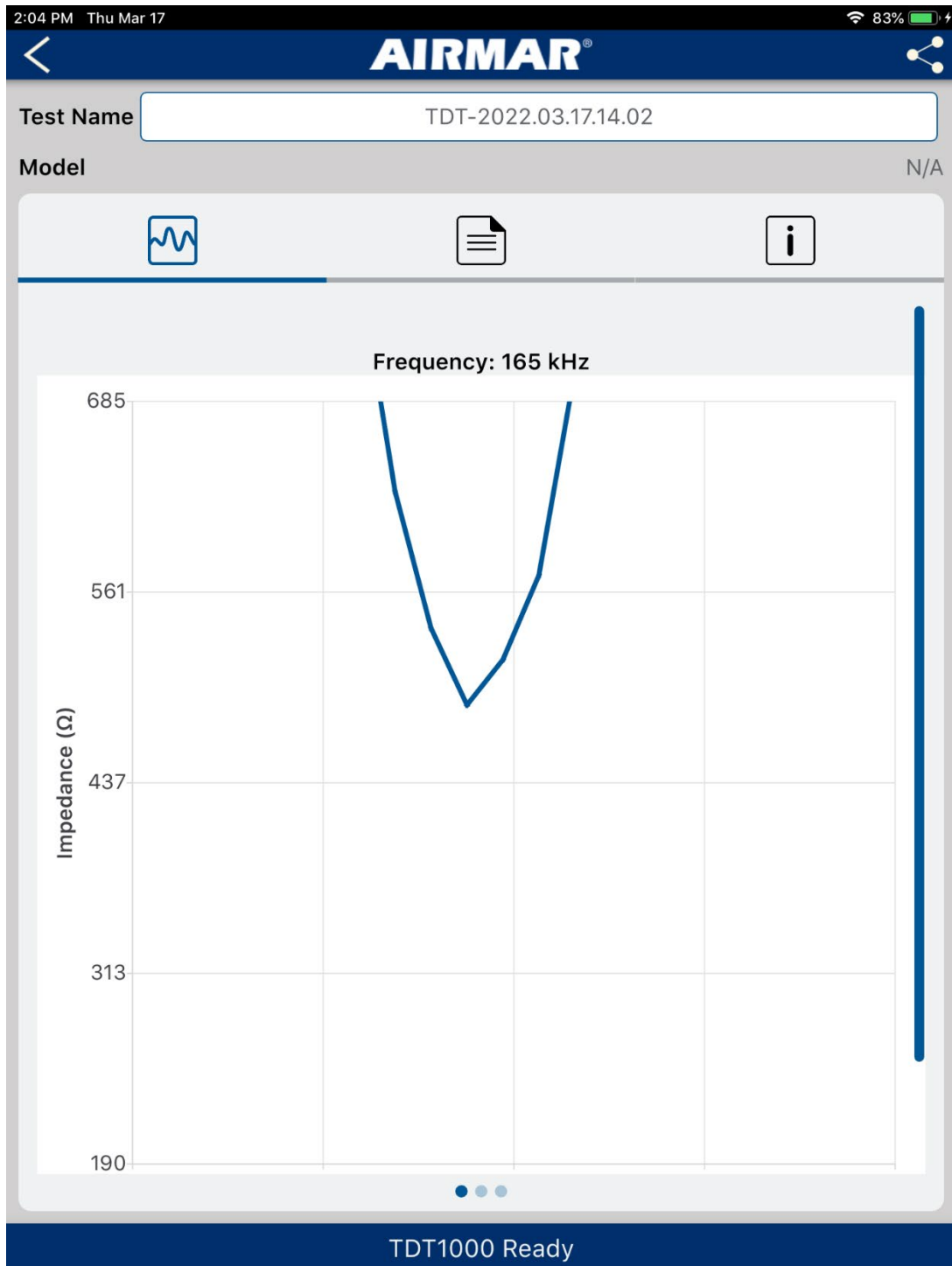
The unit will begin calibrating. Do not move transducer while it is calibrating or testing



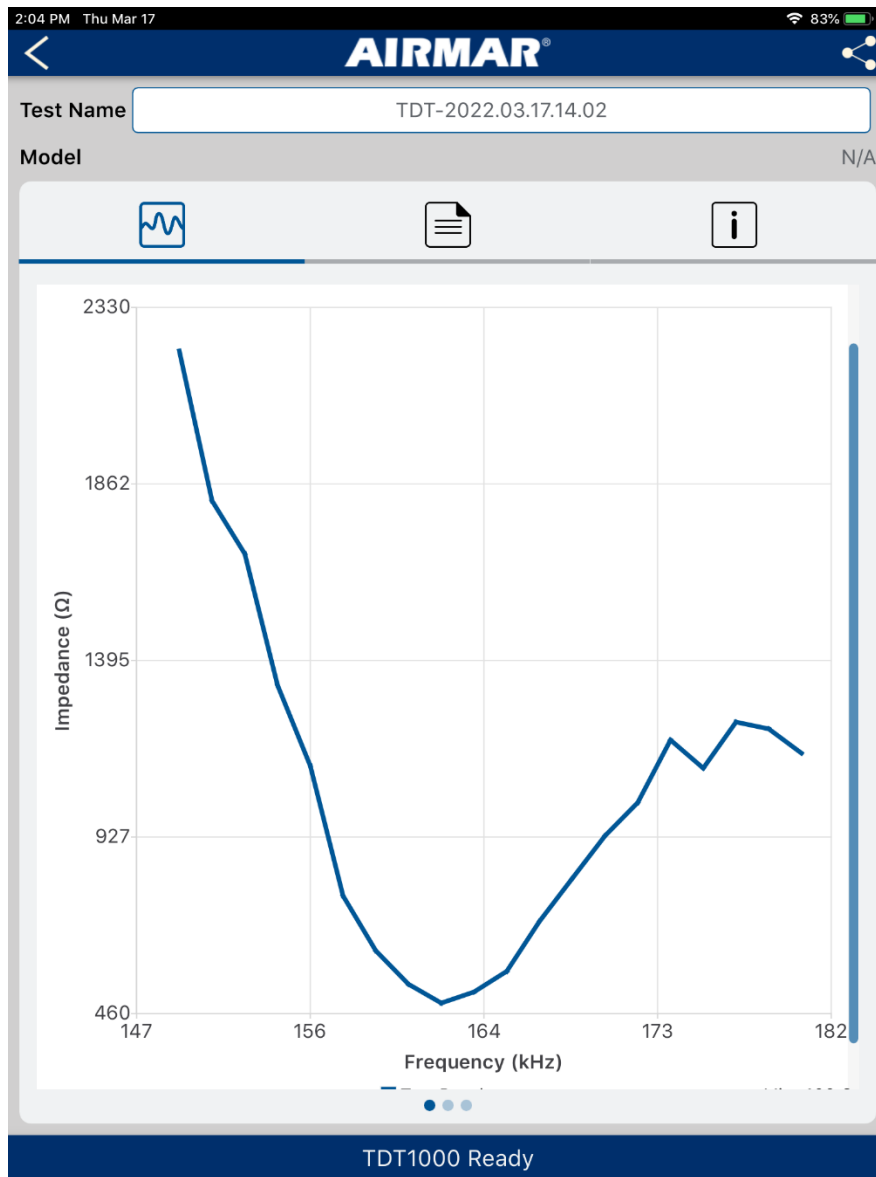
After calibration, the unit will begin testing. Do not disturb.



When the sweep result appears, it shows the bottom area of the impedance range.
Tap the middle of the screen one time to expand the view.



Looking at the expanded impedance view, ensure the sweep looks very good for the 165 kHz area, much like the example below.
(acceptable impedance value ~376 to 689 Ohms)



Repeat the procedure for each element by swapping in the next associated element wire into **POSITION 12** of the breakout box. All elements should be close to the same curve shape. Please note that these readings were taken with the transducer placed on the Airmar Transducer acoustic testing block.