

ProxiTouch

Our new product, which we've named "ProxiTouch", is a state-of-the-art compact industrial case that allows users to measure both electrical and mechanical runout with unparalleled precision. The device features a sleek and intuitive modern interface, with a user-friendly touchscreen that provides easy access to all the necessary functions. ProxiTouch is also highly versatile, able to connect with 2 non-contact proximity probes from any manufacturer, making it a powerful tool for engineers and technicians in any industry. Its rugged design means it can withstand even the most challenging environments. In addition, ProxiTouch includes electrical and mechanical runout compensation, ensuring that you get accurate and reliable results every time. And with remote support and over-the-air firmware and software updates, you can be confident that your ProxiTouch will always be up to date and working at its best.

- [ProxiTouch: Quick Start Guide](#)
- [FATMC \(Factory Acceptance Test Monitoring Console\)](#)

ProxiTouch: Quick Start Guide

For Help With This Document:

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or

Email: leo@machinesaver.net

TouchScreen Tips:

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ouse click.

ght mouse click.

ind keyboard button on right hand side. Keyboard > [Fn] > [F11].

and then selecting "Exit Fullscreen".

Power the Unit:

1. Plug in the power cord to a wall socket. This should power touchscreen and TwinProx.
2. Do NOT touch anything while windows is booting until the Team Viewer screen comes up.
3. Shouldn't take more than a minute to boot up.
4. Once the Team Viewer screen comes up, press the [Minimize Button] to hide Team Viewer.

Connect to TwinProx using Interface:

1. Use the touchscreen to tap on the button [Scan Serial Ports]



2. Select available device

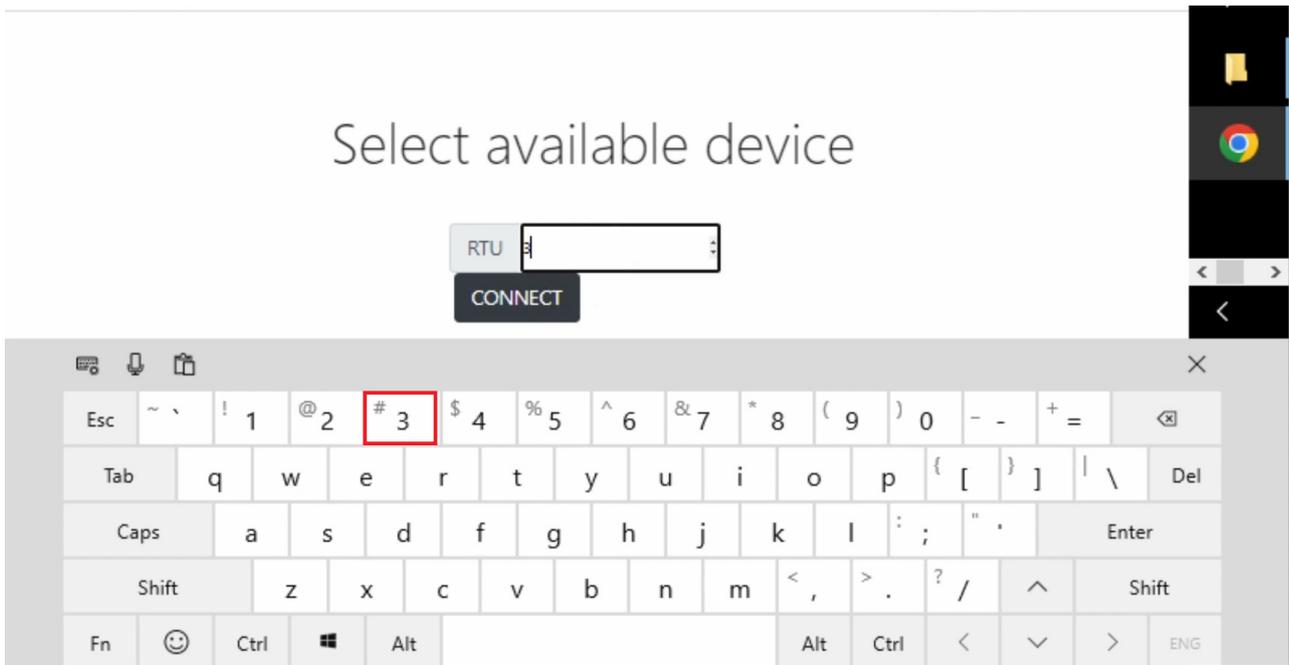
Select available device

RTU

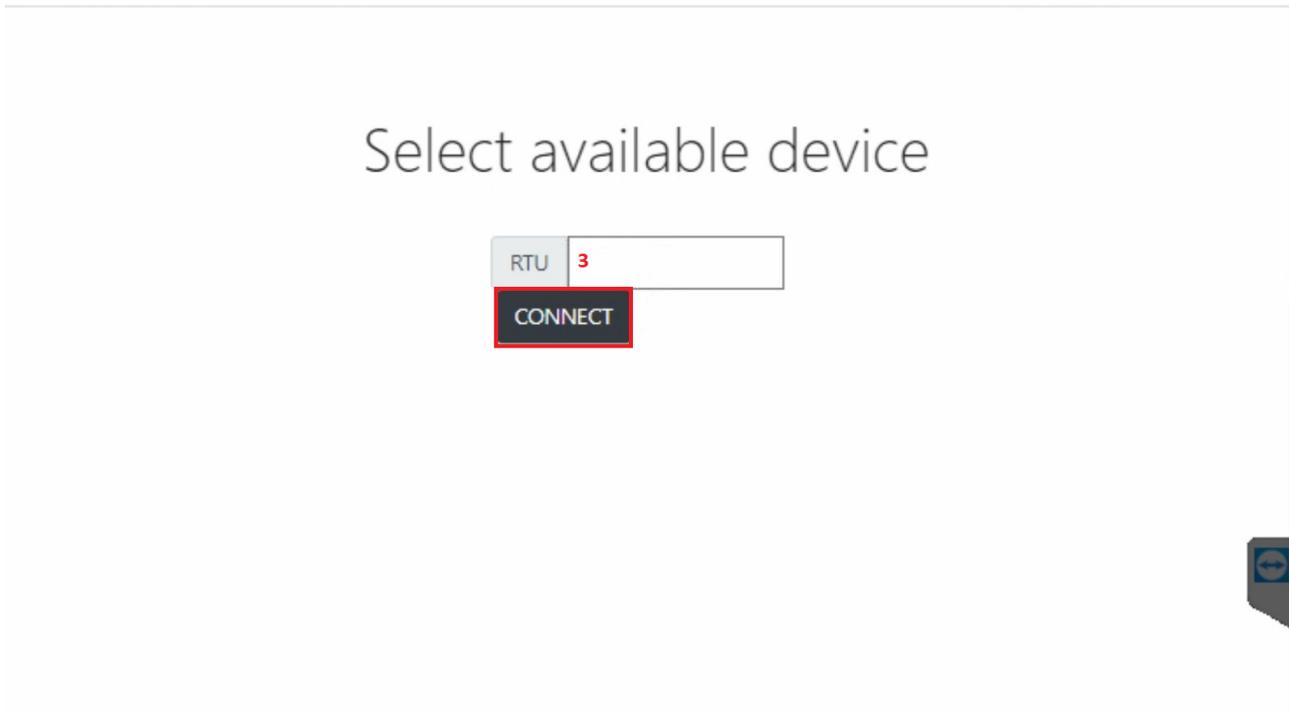
CONNECT



3. Enter a value of the TwinProx RTU:
For this unit it is "3".



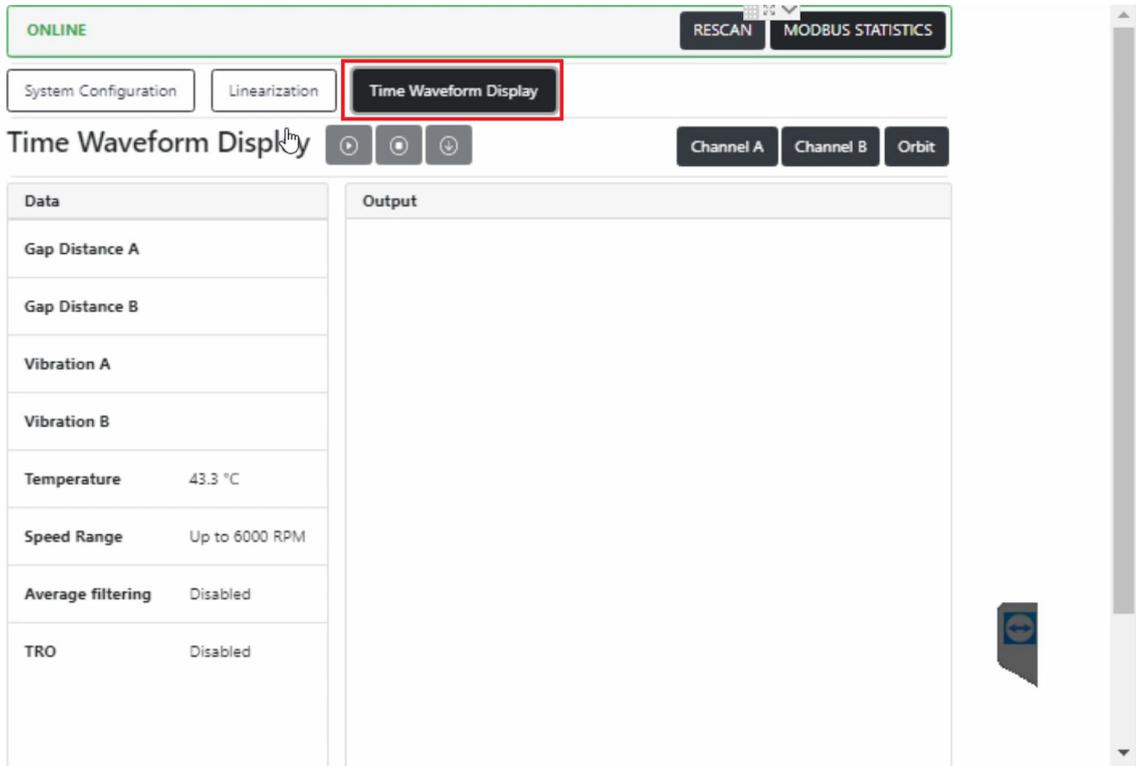
4. Click "Connect"



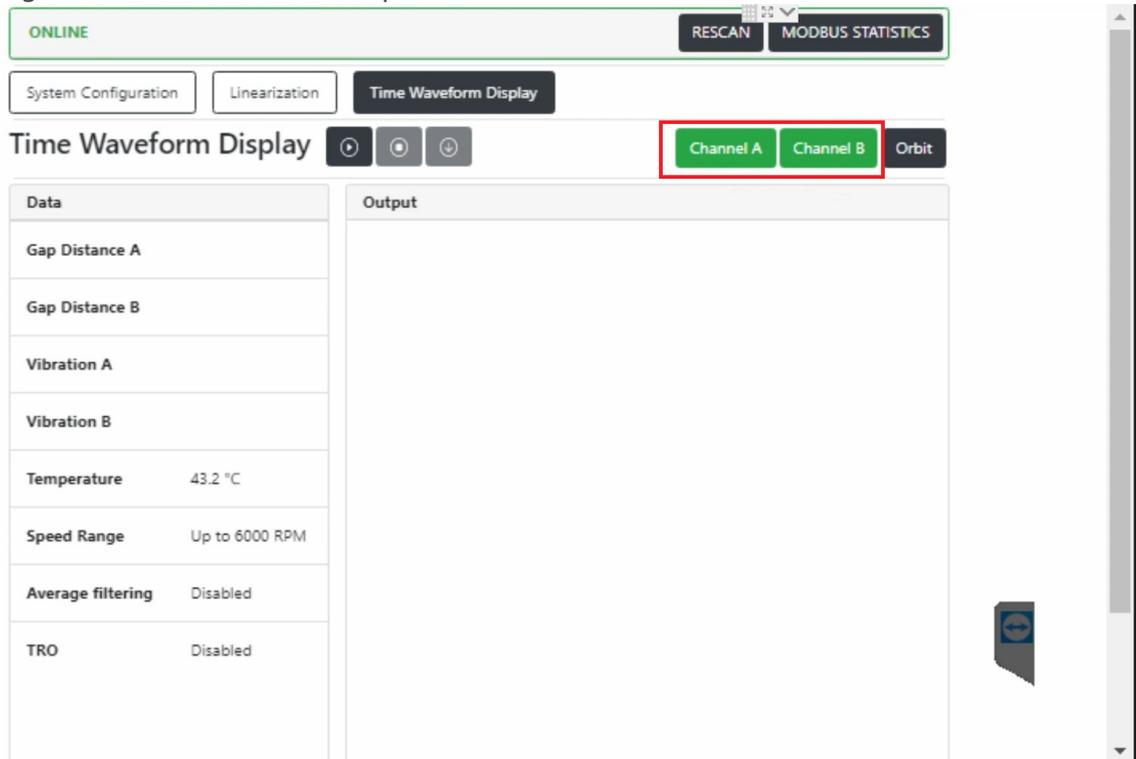
Time Waveform Display

1. Select "Time Waveform Display"

Note: This is the Time Waveform Display Button at the very top of the interface, not the Setup Button 3 Lines Below



2. Select the channels you want to see "Channel A" and "Channel B" both should be highlighted green before the next step.



3. Select the **Play Button**
(If you want to reset the waveform data, press the stop button then the green play button)

again)

The screenshot shows the 'Time Waveform Display' interface. At the top, there is a status bar with 'ONLINE' in green, and buttons for 'RESCAN' and 'MODBUS STATISTICS'. Below this are navigation tabs: 'System Configuration', 'Linearization', and 'Time Waveform Display'. The main title 'Time Waveform Display' is followed by a play button (highlighted with a red box), a stop button, and a refresh button. To the right are buttons for 'Channel A', 'Channel B', and 'Orbit'. The interface is split into two columns: 'Data' on the left and 'Output' on the right. The 'Data' column contains a table with the following information:

Data	
Gap Distance A	
Gap Distance B	
Vibration A	
Vibration B	
Temperature	43.2 °C
Speed Range	Up to 6000 RPM
Average filtering	Disabled
TRO	Disabled

The 'Output' column shows a large loading spinner, indicating that the waveform data is not yet displayed.

4. You may need to scroll on a smaller screen to see both channels displayed:

This screenshot shows the 'Time Waveform Display' interface with the 'Output' section scrolled down to reveal two channels of data. The 'Data' table is updated with the following values:

Data	
Gap Distance A	30.32 mils 6.1 volts
Gap Distance B	194.02 mils 38.8 volts
Vibration A	0.06 mils
Vibration B	0.37 mils
Temperature	43.6 °C
Speed Range	Up to 6000 RPM
Average filtering	Disabled

The 'Output' section displays two waveforms. The top waveform, labeled 'Channel A mV', shows a signal fluctuating around a mean value of approximately 30.3 mV over a 50 ms period. The bottom waveform shows a signal fluctuating around a mean value of approximately 194.0 mV over the same period. The x-axis for both is labeled 'mS'.

5. If all was done correctly you should see values for both channels displaying here:

Gap Distance A = The distance from the tip of the probe to the shaft connected to channel A of the TwinProx (Driver).

Vibration A = Mils Pk to Pk of the whole waveform for Channel A.

Gap Distance B = The distance from the tip of the probe to the shaft connected to channel B of the TwinProx (Driver).

Vibration B = Mils Pk to Pk of the whole waveform for Channel B.

Speed Range = Displays the time frame of the windows for both waveforms.



Other Information

1. Using the Onscreen Keyboard (Manually)
Touch on the Taskbar the Keyboard



12:57 PM
2/27/2023

Remote Help

1. Click the network button on the taskbar.



12:57 PM
2/27/2023

2. Connect to a network with Internet access.

FATMC (Factory Acceptance Test Monitoring Console)

The FAT console is to monitor and collect info on electrical motors, centrifugal compressors as well as steam turbines mainly. Primarily, we will use it for electrical motor since the test bench is already built as sort of operational. The test bench for centrifugal compressors and steam turbines are in progress. Hence we want you to join us at an early stage to enhance what we already have.

You can use the typical arrangements below extracted from API 670. The electrical motor one describes exactly the points we want to measure. The one for compressors gives you an idea of what else you should add on to make it generic for other applications.

The diagram does not include provision for velocimeters and accelerometers which are also needed. It only shows the displacement probes.

I am still working on the template of the report. However, it is secondary, as long as you have an idea of the hardware, the report could be resolved later on.