

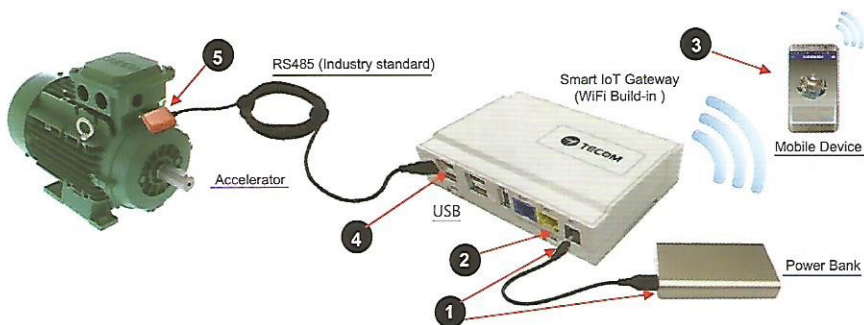
Pro-3200 Quick Installation Guide & Measurement Procedures 1-2-3

1 APP download and Installation

Search and download [Pro-3200] from Apple Store or Google Play to install it on your smart phone. Make sure the latter is connected to the Internet in advance.

2 APP download and Installation

Open the diagnostic instrument kit and take out the Smart IoT Gateway AG-300 Plus2, Power Bank and VB-200STU, then connect them as follows (steps 1 to 5).



1. Connect the power bank to the power jack (DC) of the Smart IoT Gateway AG-300 Plus2, and then turn on the power bank.
2. Wait for the WLAN LED (green) to turn on, and now you can start the WiFi connection.
3. On Smart mobile phone, Please enter [WiFi] mode to find [TECOM_XXXXXX] WiFi network name, then confirm "XXXXXX" 6-digits are exactly the same as the last 6-digits of MAC address, printed on the serial number label of the Smart IoT Gateway, press the "TECOM_XXXXXX" for network connection, the Smart phone will show "Connected" to indicate a successful WiFi connection between the Smart phone and the Gateway. You only need to do this procedure once. Later, your phone can automatically connect to the Gateway.



This 6-digit number must be the same as the TECOM XXXXXX 6-digit number on the mobile WiFi network.

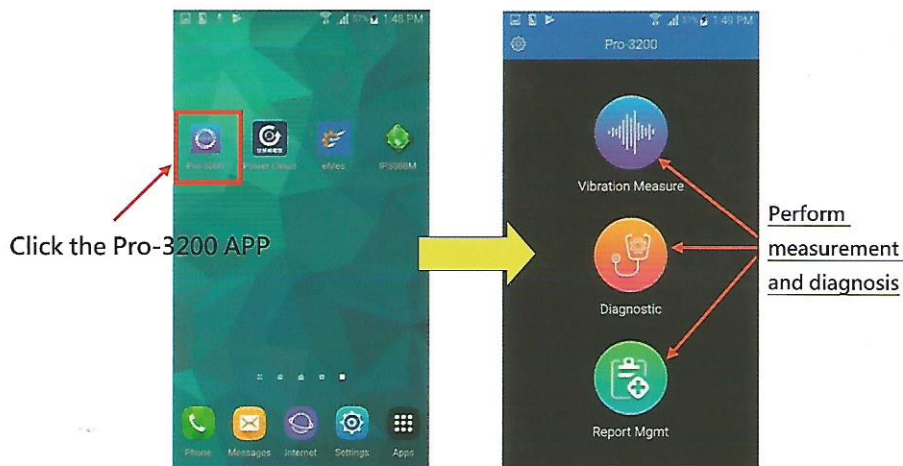
4. Insert the USB connectors of the vibration gauge to the 1st and 2nd RS485 receptacle(s) of the Smart IoT Gateway.
5. Install the magnetic vibration gauge(s) to the correct position of the device under test.

After completion of steps 1 to 5, you can start the diagnostic procedure.

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3 Measurement and diagnosis

1. Open the [Pro-3200] APP on mobile device.
2. Your phone will be automatically connect to the Smart IoT Gateway.



3. Please follow the 'Prompts' of the Pro-3200 APP for vibration diagnostics.

Please scan QR Code for installation manual



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference and
- 2) this device must accept any interference received, including interference that may cause undesired operation of the device.

PRO-3200 : Vibration Measure Procedures

Important Notes :

1. Surface of a motor or other machine usually is curved and sometimes with uneven spot-holes, the installation of the vibration gauge must be very secured, otherwise the vibration of the gauge body itself will cause unreasonably high readings. When this happens, check the firmness of the contact and may use TECOM's selectable magnet Foot Stands to fit the surface better.
2. Due to the strong magnetic force, please be careful avoiding direct contact of the two magnets. In case the two magnets contact each other, use screw-driver-like tools to separate them.

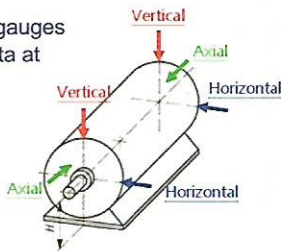
- 1 Follow the ISO-10816 procedures, use the two vibration gauges to measure the vertical and horizontal vibrations RMS data at the specified locations. (Fig. 2)

1-1. Vertical measurement

- Install the 1stVB-200 ST at the location shown as Fig. 2
- Take Z-axis readings (Fig.1)

1-2. Horizontal measurement

- Install the 2nd VB-200ST at the location shown as Fig. 2
- Take Z-axis readings (Fig.1)



3 Axial X/Y/Z Position

Figure 1

- 2 With the parameters of the motor being entered, the ISO 18016 RMS limits are already in the gateway. The measured vertical and horizontal RMS readings are to compare against the limits. Any one or both readings exceed the ISO 10816 limits, the monitor is considered not normal.

- 3 Get into the diagnosis procedures of the Five most-likely defects. Just follow the interactive prompts between the Gateway and your smart-phone. Step by step, until diagnosis is complete.

※ Note: even if the RMS values are not over the limits, you can still get into the diagnosis procedures, and record the results. These can be used as crucial references for future maintenance.

- 4 All reports of measure, analysis and diagnosis are automatically generated, distributed electronically and can be printed on hard copies as well.

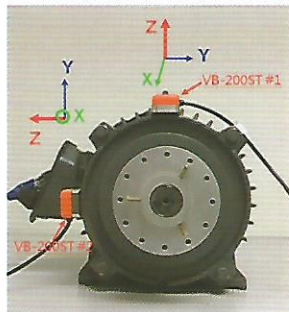


Figure 2

Remarks:

- a. VB-200 is a tri-axial sensor, while the Z-axis data is used for limit comparison and diagnosis, the X/Y axial data are related to moving trajectory, can be used for advanced analysis.
- b. In case the diagnosis of some items result in "remain tracking", TECOM's "Trend tracking instrument" can be used to gain trending data, for maintenance suggestions.