TECO Pro-9900 Automatic Vibration Measurement and Acceptance Instrument Installation Guide

Pro-9900 Quick Installation Guide

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Pro-9900 Automatic Vibration Measurement and Acceptance Instrument

TECO Group Pro-9900 Portable Vibration Acceptance Instrument can be applied in analysis & acceptance of vibration problems for rotary machines. Setup is quick and easy. Technicians just go thru simple steps with Pro-9900 Auto software running on tablet to understand potential vibration issues.
It is an essential tool for technicians working in technical support, maintenance, repair and related fields.

Key Components

xDAQ-600 IIoT Gateway

IEPE Piezo Vibration Gauge

Accessories

10" Tablet
(with Auto & PMS Software)

Product contents

a. Tool Box : x1
– xDAQ-600 – x1
– IEPE Vibration Gauge – x1
– Double head screw – x1
– Magnet holder – x1
– Winding line – x1
– Power Bank – x1
– Vibration Pole – x1
– Power Bank – x1
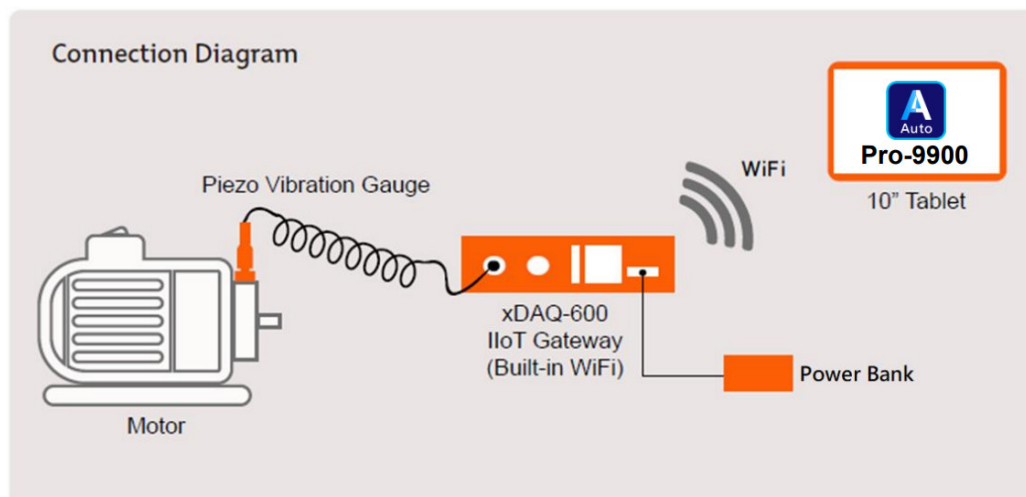**b. Tablet Pack – x1**
– Windows Tablet w/keypro – x1
c. Action Pack
(soft case 2 pieces) – x1
d. Power Charger
(for Tablet) – x1

Quick Settings and Connection

Connection Diagram

Piezo Vibration Gauge

WiFi

Pro-9900
10" Tablet

xDAQ-600
IIoT Gateway
(Built-in WiFi)

Power Bank

Motor

1. Connect the Power Bank to the power jack (DC) of the Smart IoT Gateway xDAQ600, and then turn on the

Power Bank. The default password of the tablet is demo .

2. After the WAN LED (orange) is on and wait for around 30 seconds. Then search Wi-Fi AP and start the Wi-Fi connection.

3. On the Tablet, please enter Wi-Fi mode to find TECOM_XXXXXX Wi-Fi SSID.

   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. Select "TECOM_XXXXXX" for network connection. The Tablet will show "Connected" to indicate a successful Wi-Fi connection between the Tablet and the Gateway. This procedure only needs to be done once. The Tablet will automatically connect to the Gateway after on.

S/N : 261-450562R H5A00001
MAC : 001915 XXXXXX
Host ID : XXXX.XXXX.XXXX.XXXX.XXXX.

This 6-digit number must be the same as the TECOM XXXXXX 6-digit number on the Tablet Wi-Fi network.

4. Install the magnetic vibration gauge (or w/vibration pole) to the correct position of the device under measure.

5. After the completion of steps 1 to 4, the Measure and Acceptance procedures by using Pro-9900 Auto software on Tablet is ready.

Illustration: After opening the toolbox, perform the following steps

1. Connect the Power Back to the the gateway and wait for about 30 seconds for the gateway to start.
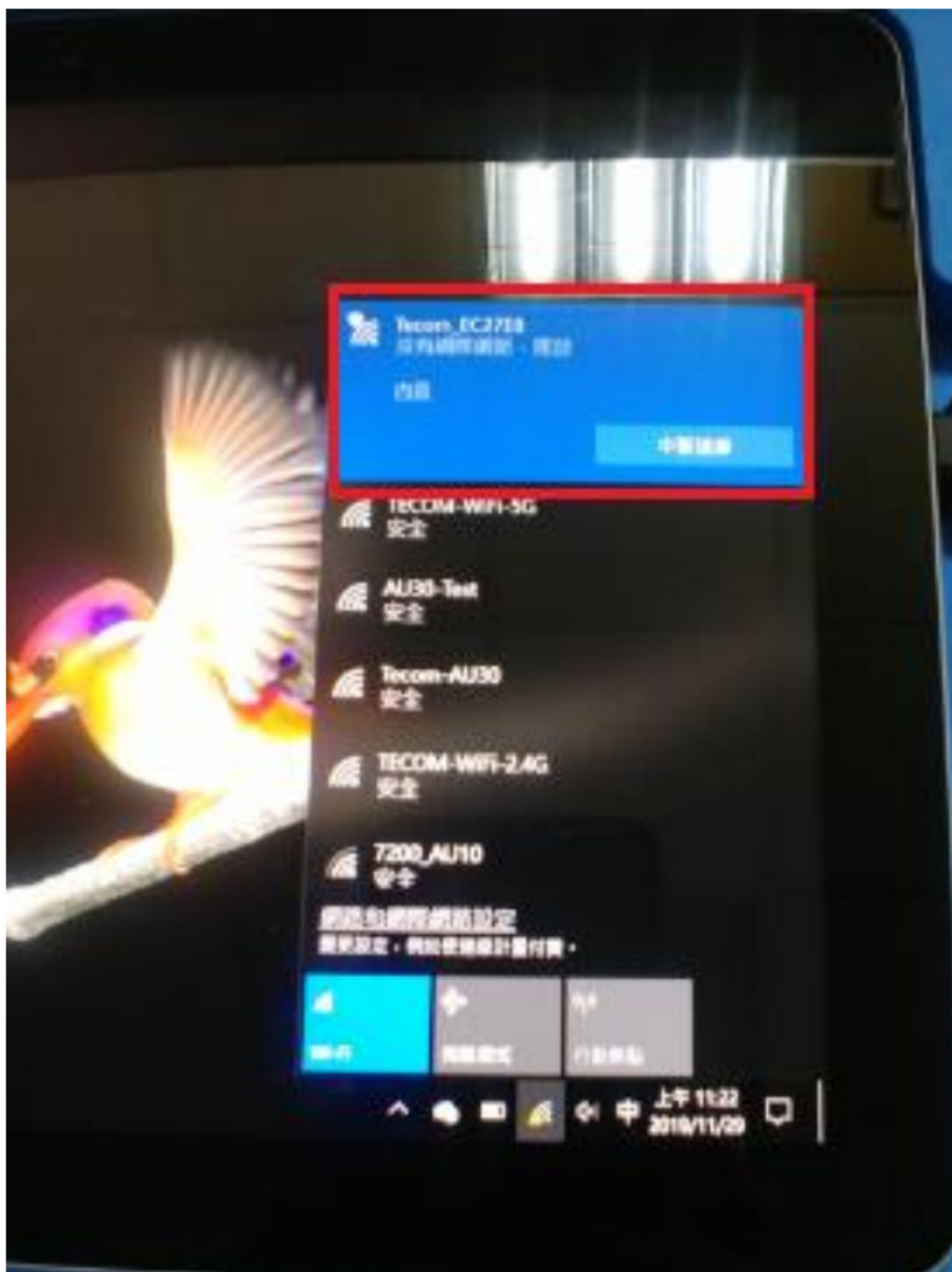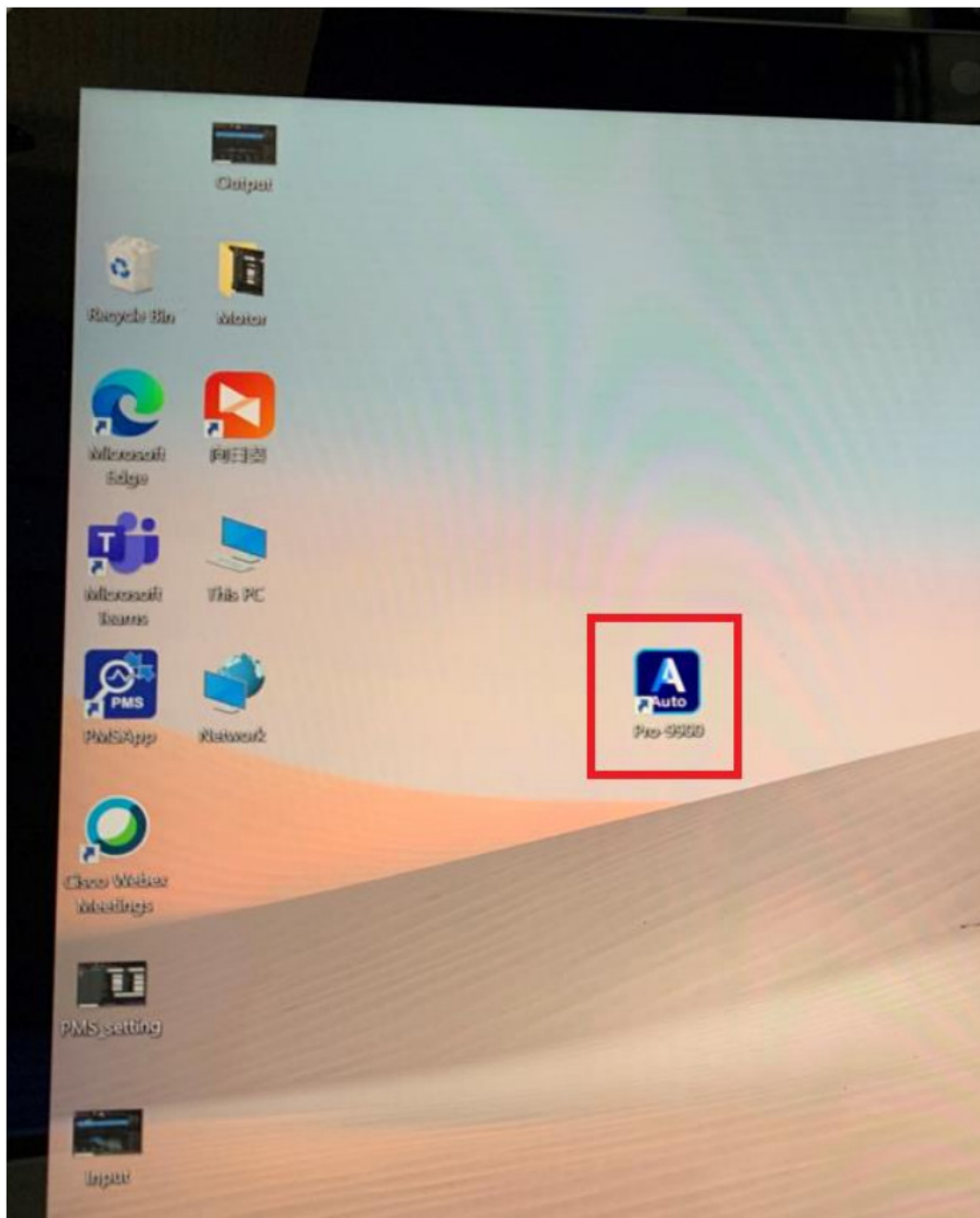

2. Insert keypro into Type C interface

3. Turn on the power on the tablet

4. Find xDAQ-600 Wi-Fi SSID and connect.

5. Select PMS APP to open

Prognosis Monitoring System (PMS)
Provide following functions
Projet : Create data for measuring equipment
Monitor : Real-time data capture, health analysis, diagnosis
Data Analysis : Load historical raw data for data diagnostic analysis
Predictive Analysis : Predictive analysis through database data and algorithms
Report Export : Chart trend analysis from database data
Environment Setting : DAQ, channel, database, file, system setting
Judgment every minute, the results are presented numerically, the higher score means the higher probability that
the problem will occur.

17 Troubleshooting Items

Shaft Type	Bearing Type	Electrical Type	Gear Type
Unbalance	Oil whirl	Air Gap Eccentricity	Gear Eccentricity
Shaft Bent	Oil whip	Broken Rotor Bar	Gear Misalignment
Misalignment	Inner race damage	Phasing Fault	Broken Gear Tooth
Looseness	Outer race damage		Gear Tooth Wear
	Roller damage		Gear Shaft Bent

Documents / Resources

TECO Pro-9900 Automatic Vibration Measurement and Acceptance Instrument [pdf] Installation Guide
Pro-9900_QIG_EN.pdf, Pro-9900 Automatic Vibration Measurement and Acceptance Instrument, Pro-9900, Automatic Vibration Measurement and Acceptance Instrument