NISE 3700E PDM Solution Pack

Main Features

- Rotor kit includes motor, coupling, balancing disk, gear reducer, blower, tachometer and motor speed controller
- Customized bearing housing
- Equip with real blower
- Aluminum alloy foundation

- Disconnect coupling easily to compare the vibration behavior between different load
- Dynamic balancing simulation
- Misalignment simulation

Product Overview

NEXCOM Predictive Diagnostic Maintenance (PDM) solution kit is the education/training kit for the predictive maintenance for rotary machinery. It includes the rotor kit, vibration sensors, digital signal processing module, PLC, the IoT gateway with vibration predictive/analysis software function. The rotor kit is designed as similar as the exact machinery. Users can us the rotor kit to simulate the unbalance, shaft alignment, variable loading to monitor the bearing, shaft, motor, gear box behavior to learn how to analyze the machine situation. The IoT gateway with the predictive/ analysis software can help use to learn how to implement the IoT communication technology for the PDM application.

NISE 3700E PDM Solution Pack Specifications

PDM Station
- NISE 3700E, 4th Generation Intel® Core™ i7/i5/i3 LGA Fanless System with Expansion

OS
- Windows 10 IoT Enterprise T

Software
- Iot Studio
- JMobile

Power Induction Motor
- 60 W,110 V, single phase

Maximum Speed
- 1750 rpm (with 60Hz power)

Total Assembly Weight
- 9.6kg

Total Dimension
- 720 x 460 x 230 mm

Bearing
- SKF 16101-2Z for shaft at balancing disk and blower

Gear Reducer
- Total gear ration: 5.7:1
- 1st stage gear ratio 11T:50T
- 2nd stage gear ratio 24T:30T

Blower
- 45 pieces of blade

Controller
- CompactLogix 750KB DI/O Controller

Dynamic Measurement Module
- CompactLogix Device Net Scanner Module
- Ordering Information

Ordering Information

- **NISE 3700E PDM Solution Pack (P/N: 86NISPDMSPX00)**
  Nexcom PDM solution pack is a project based and customized solution pack, content items may be vary. Please contact sales department for detail information before ordering.

Cyber-Physical System