

Physical Measurement Module for Motor Test Systems



Testing Applications

Perform advanced physical measurements to your motor under test by the following inputs:

- Vibration Measurement
- Thermocouple Temperature Measurement
- RTD Temperature Measurement
- Tachometer/Optical Speed Measurement

Add Physical Measurement capability to virtually any Motor Test System to perform advanced motor analysis

- **Variety** of **configurations** available
- **Interfaces** to a variety of **controllers**
- Mounted in a **single, stand-alone benchtop** enclosure (cart included)
- **Security circuit interlock**
- **Operates** on standard **120 or 240 Volts**

The Physical Measurement Module is customized for your specific application. Consult with one of Phenix Technologies' sales representatives to select the number of RTDs, Thermocouples, and Accelerometers desired.



Vibration Measurement

- Acceleration
 - Velocity
 - Displacement
 - Spectral analysis
- Range:** 0-0.3 in/sec (velocity), 0-10.00 mil (displacement)
Accuracy: +/-1% of range +LSD
- Select from 0-6 Accelerometers
 - Includes 10' (3 m) BNC cables, sensors, and magnetic mounts

Temperature Measurement

- Supports Platinum, Nickel, and Copper RTD material
 - Supports Thermocouples Type J, T, E, and N (standard is Type J)
- Range:** 0-200.0°C (32.0-320.0°F)
Accuracy: +/-1°
- 15' (5 m) lead optional
 - Select from 0-16 RTDs (sets of 4)
 - Select from 0-16 Thermocouples (sets of 4)

Tachometer / Optical Speed Measurement

- Input jack with removable optical tachometer pick-up
- Range:** 0-9,999 RPM
Accuracy: +/-1 RPM



Motor data is displayed on a PC screen with data acquisition and report generation via WinMTS software

Motor Data

Motor Type: AC 3-Phase Induction

Serial No: YJ982345 ID: _____

Manufacturer: Joy Manufacturing

Enclosure: Org Poles: _____

Model: _____ Frame: 10C804J

Winding: _____ Insulation: Joy H

Field V: _____ Field A: _____

Voltage: 550 Current: 51

RPM: 1150 HP: 50

Power Factor: _____ Efficiency: _____

OK Cancel

WinMTS

Test Results Options

Job Number / Report Number: Phix_1 Motor Serial No: YJ982345

Customer Name: Phenix Technologies

Temperature / Vibration Labels

Temperature Labels	Vibration Labels
1: End Cap	1:
2:	2:
3:	3:
4:	4:
5:	5:
6:	6:
7:	7:
8:	8:
9:	9:
10:	10:

Test Type: Load Test

Single Test...

Load Defaults

Motor Values:

Power	Temp	Vibration	Open
AIR 01 141.5	A 01 13.7		
F C 01 101.6	B 01 13.7		
C A 01 101.4	C 01 13.7		
Results 1.70			
Kw 01 0			
Kw 02 0			
Kw 03 0			
Kw 04 0			
Kw 05 0			
Am 01 0.33			
Am 02 0.20			
Field 01 0.00			
Field 02 0.00			
Senor 01 0			
Senor 02 0			

Options

Phenix Technologies
75 Speicher Drive
Accident, MD. 21520
301-746-8118

Customer: Phenix Tech
75 Speicher Drive
Accident, MD. 21520

Contact: David Wampler
Phone: 301-746-8118
Date: 8/3/2007 3:06:54 PM

Job Number: 874555
Serial No: 45-845-8678
Manufacturer: Phenix Tech
Model: XYZ
Type: Shunt
Frame: J

Voltage: 480
Current: 25
Horsepower: 45
RPM: 1200
Power Factor: 0.98
Efficiency: 0.89

Temperature Readings

Time	Temp 1	Temp 2	Temp 3	Temp 4	Temp 5	Temp 6	Temp 7	Temp 8
00:00:00	32.3	27.8	33.1	29.4				

Tested By: _____ Date: _____

PHENIX TECHNOLOGIES

WORLD HEADQUARTERS
Phenix Technologies, Inc.
75 Speicher Drive
Accident, MD 21520 USA
Ph: +1.301.746.8118
Fx: +1.301.895.5570
Info@phenixtech.com

BRANCH OFFICES

Phenix Systems AG
Riehenstrasse 62A, 4058 Basel, Switzerland
Ph: +41.61.383.2770, Fx: +41.61.383.2771, Info@phenixsystems.com

Phenix Asia
Zhong Cheng Rd, Sec 1, No 177, 2F, Taipei 11148 Taiwan
Ph: +886.2.2835.9738, Fx: +886.2.2835.9879, Info@phenixasia.com

ISO
9001:2008
Compliant

