

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

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

Dimensions: 20" (508 mm) L x 16" (407 mm) W x 12" (305 mm) H

Weight: 37 lbs (17 kgs) (approximate)



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 Dynamic Test Single Test...

Load Defaults

Motor

Phase	Temp	Vibration	Open
A-RMS	33.3	A-gs	0.17
B-C-RMS	27.8	B-gs	0.17
C-A-RMS	33.1	C-gs	0.17
Results	33.3		
Kw-R1			
Kw-R2			
Kw-R3			
Kwh			
Am-R1	0.33		
Am-R2	0.33		
Field-R1	0.00		
Field-R2	0.00		
Senes-R1			
Senes-R2			

Print...

Phenix Technologies
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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

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9001:2008
Compliant

