3600 HVAC Test System

SPECIFICATIONS and ORDERING INFORMATION

3600 HVAC TEST SYSTEM

TEST AND ANALYSIS SPECIFICATIONS

- **Full Functional Testing**
  - Blower Motor
  - Actuators
  - Evaporator Probe
- **Comprehensive Analysis**
  - Electrical Current Waveforms
  - Blower Motor Vibration
  - Airflow Analysis
- **Defect Detection**
  - Faulty Actuators
  - Seals
  - Noisy Blower Motors
  - Electrical Harnesses
- Limit setting using discreet waveform characteristics and statistically or empirically derived compliance envelopes.
- Data saving options include raw data waveforms stored against serial number and *.wav file type for playback audio assessment.
- Tests conducted using OEM Head Control Units *(optional)*

CONTROLLER

- InspeXion Test and Analysis Software & SPC module
- Microsoft® Windows® operating system
- Standalone Enclosure
- Amphenol Connector HVAC Unit Interface
- OPC PLC Interface
- Keyboard with integrated pointing device

PROCESSOR

Processor	Intel®*
Hard Disk	20 GB*
DRAM	128 MB RAM*
Dual Ethernet	10/100 Base-TX
	PLC Interface
	Data Network Interface

GENERAL

Enclosure Dimensions	65 x 25 x 27 in *(1650 x 635 x 685 mm), HxWxD*
Enclosure Weight	300 lbs *(136 kg)*
Shipping Weight	360 lbs *(164 kg)*
Operating Humidity	8 to 90% relative, non-condensing
Operating Temperature	50 to 110°F *(10 to 45 °C)*
Warm Up Time	60 minutes for stated accuracy
Paint Finish	Grey baked enamel

* *The exact processor type and speed, memory supplied, hard disk capacity and other technical specifications will change as computer technology improves.*
** *Depends on system configuration.*

AC POWER REQUIREMENTS

Supply Voltage	90-135/180-265 VAC rms, auto-detecting
Frequency	50 - 60 Hz
Power Consumption	1500 W maximum, 960 W typical

ANALOG INPUTS

N.B. The Sensor information provided below is typical only and should be reviewed on a per installation basis to conform to the application and customer specifications.

AIR FLOW SENSOR

Type:	Orifice/Nozzle with Differential Pressure Measurements
Sensitivity:	Dependent upon HVAC blower range
Output:	0 to 5 Vdc
Required Measurements:	Low, Medium, High Ranges

LASER VIBROMETER

Type:	Orifice/Nozzle with Differential Pressure Measurements
Sensitivity:	Dependent upon HVAC blower range
Output:	0 to 5 Vdc
Required Measurements:	Peak to Peak, RMS

EVAPORATOR PROBE

Type:	OEM
Output:	0 to 5 Vdc
Required Measurements:	Ambient Conditions

CURRENT SHUNTS

Type:	High Precision Resistive
Output:	0 to 5 Vdc
Required Measurements:	Analog

Note: Specifications subject to change without notice.

PART NUMBER

3600-1000-0000 — **3600 Standard -** Complete HVAC End of Line Tester including the following components:

- HVAC Test application license
- InspeXion® Test and Analysis Software & SPC module
- 210 Card: 4-channel 12-bit D/A with 4 digital inputs & 4 digital outputs
- 203 HVAC control board
- Model 330-8 Test and Analysis System
- 17" TFT LCD Monitor, 1280x1024
- Enclosure - Low profile NEMA 12 enclosure with heat exchanger
- Programmable power supply with current mode switching rates

3600-1001-0000 — **3600 Pro -** 3600 Standard system with QualityWorx® bundle

OPTIONS:

3600-1000-0010 — OEM Control Head Interface

Sciemetric can provide a customized control interface to allow the Client to test the HVAC units with the actual control head type that will be used in the vehicle. This option provides the Client with the benefit of production testing the actual response and stability of the OEM installation. Lead time and price are application dependent.

3600-1000-0020 — Air Flow Analysis

Measures and displays the calculated rate of airflow through panel and defrost airflow sensors.

TECHNICAL SUPPORT
1-877-581-0112

ISO 9001 REGISTERED

Designed for Microsoft® Windows® XP

For more information contact your local Sciemetric Representative

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