

# **BID SPECIFICATIONS: GALAXY™ AUTOMATED TEST SYSTEM**

## **PHYSICAL CHARACTERISTICS**

Size	Test stand shall not exceed 6.25"(L) x 6.25"(W) x 11.25" (H).
Weight	Less than 3.1 pounds (1.4 kg).
Case Material	Test stand shall be high strength, non-corrosive ABS.
Display Location	Display is viewable from the front.
Desktop/Wall Mount	System must be desktop or wall mountable.

## **USER INTERFACES**

Display Type	2 line x 16 character alphanumeric display, continually displaying test status information.
Backlight	Unit must be provided with backlight for low-light viewing.
Keypad/Switches	Test Stand must have no more than 3 pushbuttons to operate. There shall be no requirement to access hidden or internal switches for any system operation.
Status LEDs	Separate Green and Red LEDs on Test Stand indicating test completion status for clear indication of Pass or Fail.
Audible Indicator	An audible indicator must be included on Test Stand for clear indication of Pass or Fail status.

## **SYSTEM FEATURES/OPTIONS**

Network Accessibility	System must have the capability for network accessibility to the Test Stand both wired (ethernet) and wireless (802.11b).
Network Software Interface	Standard web browser software (i.e. Internet Explorer or Netscape Navigator) for easy access to data records.
Standalone	System must be capable of operating without a network, controller, or computer.
Data Storage	System must be capable of storing individual test records on an industry standard flash memory card which can retain more than 1000 records.
Data Storage Protection	A cover must be provided to protect the data storage device from tampering.
Charging	System must have the ability to automatically charge an instrument after the test has been completed. The system must give clear indication of charge status via LED indicator.
Interconnectivity	Up to 10 specific systems must be able to be interconnected.
Cylinder Holder	An optional in-line cylinder holder must be available. Up to 3 cylinder holders are to be able to interconnect within the system.
Tubing and Electrical Connections	When connecting multiple Test Stands or cylinder holders together, the system must be capable of automatically connecting all required tubing and electrical connections.
Printer	The system must have the ability to print to a printer connected directly to the Test Stand.
System Door	Unit must be equipped with a system door that covers the entire instrument, keeping debris from entering the Test Stand during use or when idle.
Data Access	Communications of the instrument under test to the Test Stand shall be non-intrusive using infrared link communications.

## SAMPLING SYSTEM

Gas Delivery System	The system must be capable of automatically drawing calibration gas from a cylinder through a demand flow regulator.
Sampling System Filters	The system pump must have replaceable filters easily accessible for user replacement.
Pump Test	Test Stand provides the capability to automatically test the pump for flow and proper operation.
Cylinder Test	Test Stand provides the capability to automatically determine if the calibration gas cylinder is empty.

## ADVANCED SOFTWARE FEATURES

System Settings	All settable system parameters (test type, time and date set, adding/removing cylinders, etc.) will be protected by a user-selectable password. Password feature can also be completely disabled by the user, if desired.
Setup Modifications	Modifications to the system setup and test parameters must be able to be made via the keypad on the Test Stand.
Instrument Auto-Recognition	The system must have the ability to automatically identify the instrument type when placed in the Test Stand.
No Button Operation	Once the system is set up, the Test Stand shall perform the test without requiring the user to press any buttons. The system shall automatically run the test to completion.
Error Messages	All errors must be displayed in easily understood text messages.

## SYSTEM POWER

Battery Pack	An optional battery pack must be available to operate the system remotely providing up to 100 calibrations or tests per Test Stand.
Power supply	Power supply must be available for 110VAC/220 VAC and 12-24 VDC.

## CERTIFICATIONS

Manufacturing System Quality Approvals	The instrument manufacturer must be certified compliant with ISO 9001 provisions.
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## ENVIRONMENTAL

Temperature	Normal Operation: 0 to 40C
Humidity	15 to 90% (non-condensing) continuous operation

## MAINTENANCE, WARRANTY

Warranty	System shall have a two-year warranty on ALL components.
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