GALAXY® GX2
Bid Specifications

PHYSICAL CHARACTERISTICS	
Test Stand	
Size	Test stand shall not exceed (H) 11.80" (299.72 mm), (W) 6.50" (165.10 mm), (D) 7.90" (200.66 mm).
Weight	Weight shall not exceed 3.6 lbs, (1,6 kg).
Case Material	Test stand shall be high-strength, non-corrosive acrylonitrile butadiene (ABS).
Display Location	Touch screen display shall be visible from the front.
Total Power Consumption	Test stand exclusive of Smart cylinder shall use < 6.0 W.
Desktop/Wall Mount	System shall be mounted on desktop or wall via DIN rails.
Smart Cylinder Holder	
Size	Smart cylinder holder shall not exceed (H) 11.80" (299.72 mm), (W) 6.50" (165.10 mm), (D) 6.10" (154.94 mm).
Weight	Weight shall not exceed 3.5 lbs, (1,6 kg).
Case Material	Smart cylinder holder shall be high-strength, non-corrosive ABS.
Desktop/Wall Mount	System shall be mounted on desktop or wall via DIN rails.
Multi-unit Charger	
Size	Multi-unit charger shall not exceed (H)11.80" (299.72 mm), (W) 6.50" (165.10 mm), (D) 6.44" (163.58 mm).
Weight	Weight shall not exceed 2.9 lbs, (1,3 kg).
Case Material	Multi-unit charger shall be high-strength, non-corrosive ABS.
Desktop/Wall Mount	System shall be mounted on desktop or wall via DIN rail.

USER INTERFACES	
Test Stand	
Display Type	Test stand shall have a 4.3" resistive color touch screen.
Volume	Test stand audio response volume shall be set to user preference. Default value is medium loudness.
Backlight	Color touch screen backlight display level shall be set to user preference. Default value is medium brightness.
Status LED's	**Green** light shall indicate that test stand hardware and software are fully functional. **Blinking green** light shall indicate that test stand is performing user-specified test or datalog download. **Blinking yellow** light shall indicate that test stand is in error and cannot be used for gas detector testing. **Red** light shall indicate that last calibration or bump test failed.
Smart Cylinder Holder	
Status LEDs	**Green** shall indicate that cylinder is completely functional and that gas parameters are within pressure and expiration date limits. **Yellow** shall indicate low calibration gas, or that gas is nearing its expiration date. **Blinking yellow** light band shall indicate hardware problem with cylinder holder. **Red** shall indicate empty calibration gas cylinder, or that gas has expired.
Multi-unit Charger	
Status LEDs	**Red** shall indicate that unit is charging. **Green** shall indicate that unit is fully charged or that no unit is inserted.

SYSTEM FEATURES / OPTIONS

Network Accessibility	Two Ethernet interfaces shall be provided at rear of GALAXY GX2 System. Ports should allow for connection and communication distribution between multiple test stands. If networking to computer, 1 USB port on master test stand is used to communicate with MSA Link™ Pro Software application.
Fleet Management Software	Optional MSA Link Pro Software is available to proactively manage the gas detection program. Conditions such as exposure alarms, overdue testing and many other system conditions can be monitored live. Reports can be generated and either printed or saved. System also can directly email end users of these conditions. Ethernet connection must be established to transmit datalog data to MSA Link Pro Software.
Stand-alone	System must be capable of operating without network, controller or computer.
Instrument Configuration	Each test stand has the ability to configure set points for ALTAIR® Family Gas Detectors. Items such as alarm setpoints, datalogging setup and sensor configuration can be set via test stand user interface.
Instrument Always Ready	ALTAIR 4X and ALTAIR 5X Multigas Detectors can "wake up" and be calibrated within GALAXY GX2 System test stand; units then go back to sleep in charge mode, awaiting use or next scheduled test interval.
Charging	Each multigas detector test stand must provide for charging 1 detector. Multi-unit chargers are also available for ALTAIR 4/4X and ALTAIR 5/5X Multigas Detectors.
Interconnectivity	Up to 10 specific test stands and 4 cylinder holders must be able to interconnect and to perform 10 simultaneous tests.
Smart Cylinder Holder	Optional in-line electronic cylinder holder must be available. Up to 4 cylinder holders shall be able to interconnect within system. Smart cylinder holder to provide RFID tag recognition of calibration gas cylinder, providing calibration gas part number, gases, concentrations, lot number, and expiration date. Smart cylinder holder shall also provide demand flow regulator with digital pressure interface, displaying pressure at test stand.
Cylinder Holder	Optional in-line cylinder holder must be available. Up to 4 cylinder holders shall be able to interconnect within the system.
Printer	System must have ability to print to printer connected directly to test stand and to print calibration stickers or bump/calibration receipts. Receipt format includes embedded calibration sticker.
Data Access	Instrument communications under test to test stand shall be non-intrusive using infrared link communications. Datalogs shall be downloaded from portable gas detectors and relayed via GALAXY GX2 System test stand and an Ethernet connection. Test stand data such as overdue testing shall be directly downloaded onto USB drive from GALAXY GX2 System test stand.
USB Drive	Test stand shall provide data access via USB port on side of test stand. Feature can be disabled to prevent external access into system.

SAMPLING SYSTEM

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

MSA LINK PRO - ADVANCED SOFTWARE FEATURES

Licensing	MSA Link Pro software provided via digitally keyed USB drive. Every running instance of MSA Link Pro requires a USB software key to be inserted in USB port.
Installers	Installers provided via MSA Link Pro USB software key or via web download.
Dashboard System Status	Dashboard provides view of the current system status including number and type of alarm events, calibration gas status and any failed or overdue testing.
Data management	Access to data (gas sensor data, gas alarms and system events) provided by MSA Link Pro via reporting screens. Data is stored using any version of Microsoft SQL Server 2008; SQL Server Express 2008 R2 is installed with MSA Link Pro as default. Reports can be printed to 8.5x11" or A4 format. Data can be saved as a PDF, Excel file or .csv file.
Remote Management of Galaxy GX2 Test Stand Banks	Galaxy GX2 test stand configuration properties can be changed and saved remotely via an Ethernet connection and the MSA Link Pro software system. Changes can be propagated to one whole bank or individual test stands.
Instrument Configuration	Instrument configurations can be created in MSA Link Pro and transferred via secure digital USB key to the Galaxy GX2 test stand bank.
Fleet Management	New instruments added to the database automatically when docked with a Galaxy GX2 test stand. Instruments no longer in service can be removed via the MSA Link Pro fleet management screen.
Email Notifications	System can be configured with email lists to automatically email alerts to safety and management personnel for a select list of gas alarms and system events.

SYSTEM POWER

Test Stand	Power module input power requirements: 100 – 240 VAC, 47 – 63 Hz. (Several different prong types shall be available for worldwide AC sockets). Optional vehicle module 12/24 VDC (for use in cigarette lighter socket).
Smart Cylinder Holder	Draws power from GALAXY GX2 System test stand.
Multi-unit Charger	Power module input power requirements: 100 – 240 VAC, 47 – 63 Hz. (Several different prong types shall be available for worldwide AC sockets). Optional vehicle module 12/24 VDC (for use in cigarette lighter socket).

CERTIFICATIONS

Manufacturing System Quality Approvals	Instrument manufacturer must be certified as ISO-compliant.

ENVIRONMENTAL

Operating Temperature	0-40º C
Humidity	Not specified

MAINTENANCE / WARRANTY

Warranty	System shall have 2-year warranty on ALL components. Optional calibration sticker and receipt printer shall have 1-year warranty.