

# Galaxy<sup>®</sup> GX2

## Bid Specifications



### PHYSICAL CHARACTERISTICS

<i>Test Stand</i>	
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.
<i>Smart Cylinder Holder</i>	
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.
<i>Multi-unit Charger</i>	
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

<i>Test Stand</i>	
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 LEDs	<p>Green light shall indicate that test stand hardware and software are fully functional. <b>Blinking green</b> light shall indicate that test stand is performing user-specified test or datalog download.</p> <p><b>Blinking yellow</b> light shall indicate that test stand is in error and cannot be used for gas detector testing.</p> <p><b>Red</b> light shall indicate that last calibration or bump test failed.</p>
<i>Smart Cylinder Holder</i>	
STATUS LEDs	<p>Green shall indicate that cylinder is completely functional and that gas parameters are within pressure and expiration date limits.</p> <p>Yellow shall indicate low calibration gas, or that gas is nearing its expiration date.</p> <p><b>Blinking yellow</b> light band shall indicate hardware problem with cylinder holder. <b>Red</b> shall indicate empty calibration gas cylinder, or that gas has expired.</p>
<i>Multi-unit Charger</i>	
STATUS LEDs	<p>Red shall indicate that unit is charging.</p> <p>Green shall indicate that unit is fully charged or that no unit is inserted.</p>

## SYSTEM FEATURES/OPTIONS

<b>NETWORK ACCESSIBILITY</b>	The GX2Connect Service is a secure “relay service” that you install on a server on the same Local Area Network (LAN) as the GX2 Banks. The GX2Connect Service is how the GX2 Banks on your LAN connect to your Grid Fleet Manager cloud service on the internet.
<b>MSA GRID FLEET MANAGER</b>	Optional MSA Grid Fleet Manager is available to proactively manage the gas detection program. The GX2Connect Service receives the calibration test results and ALTAIR detector data logs from the GX2 Test Stands, then relays that data to your Grid Fleet Manager service account. Please refer to MSA Grid Fleet Manager page for more information.
<b>STAND-ALONE</b>	System must be capable of operating without network, controller or computer.
<b>INSTRUMENT CONFIGURATION</b>	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.
<b>INSTRUMENT ALWAYS READY</b>	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.
<b>CHARGING</b>	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.
<b>INTERCONNECTIVITY</b>	Up to 10 specific test stands and 4 cylinder holders must be able to interconnect and to perform 10 simultaneous tests.
<b>SMART CYLINDER HOLDER</b>	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.
<b>CYLINDER HOLDER</b>	Optional in-line cylinder holder must be available. Up to 4 cylinder holders shall be able to interconnect within the system.
<b>PRINTER</b>	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.
<b>DATA ACCESS</b>	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.
<b>USB DRIVE</b>	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

<b>GAS DELIVERY SYSTEM</b>	System must be capable of automatically drawing calibration gas from cylinder through demand flow regulator.
<b>PUMP TEST</b>	Test stand shall provide capability to automatically test pump for flow and proper operation.
<b>CYLINDER TEST</b>	Test stand shall provide capability to automatically determine if calibration gas cylinder is empty.
<b>SAMPLING SYSTEM FILTERS</b>	System pump must have easily accessible replaceable filters for user replacement.

## SYSTEM POWER

<b>TEST STAND</b>	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).
<b>SMART CYLINDER HOLDER</b>	Draws power from GALAXY GX2 System test stand.
<b>MULTI-UNIT CHARGER</b>	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

<b>MANUFACTURING SYSTEM QUALITY APPROVALS</b>	Instrument manufacturer must be certified as ISO-compliant.
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## ENVIRONMENTAL

<b>OPERATING TEMPERATURE</b>	0-40° C
<b>HUMIDITY</b>	Not specified

## MAINTENANCE / WARRANTY

<b>WARRANTY</b>	System shall have 2-year warranty on ALL components. Optional calibration sticker and receipt printer shall have 1-year warranty.
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Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice. MSA is a registered trademark of MSA Technology, LLC in the US, Europe, and other Countries. For all other trademarks visit <https://us.msasafety.com/Trademarks>.

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