GALAXY® GX2 Automated Test System Quick Start Guide - Description and Setup

1 System Components

❶ Touch screen display

❷ Status LED

❸ Test stand to test stand connector

❹ SD card port

❺ USB port

❻ Gas plugs

Memory card port provided on test stand is for calibration & bump record storage; SD or SDHC memory card can be purchased from MSA or elsewhere.

Test stand Ethernet jacks

2 Unit Connection

❶ On test stand left side, ensure that all 5 barb fittings are in place & straight before connecting cylinder holder or another test stand.

❷ Press 2 units together until barb fittings are fully inserted & flange screw holes align.

❸ Insert 3 screws: to connect multiple test stands, remove white gas plugs from all units except farthest right test stand. Continue adding test stands to right, cylinder holders to left.*
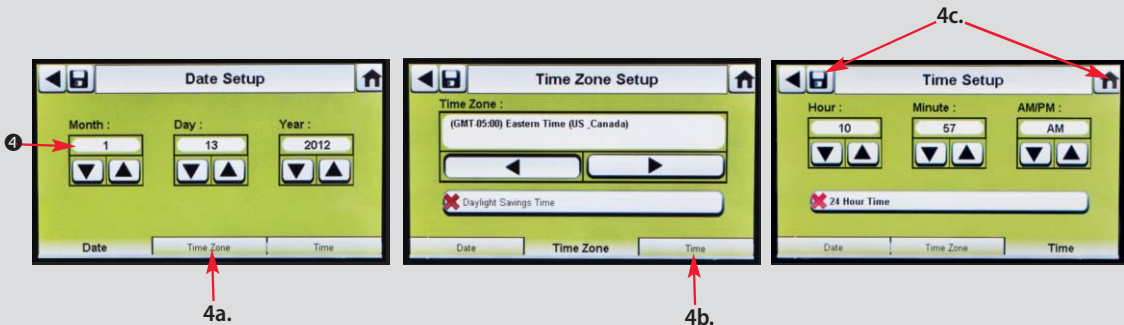
If using MSA cylinder holders, left-most cylinder holder should have fresh air filter attached to top port.

*If using ammonia or chlorine test gas, read restriction found under instruction manual chapter 2.8 "Special Conditions for Use with Reactive Gases" .

3 Initial Startup

❶ Power on system by plugging into A/C outlet. MSA logo screen will briefly display.

❷ Next, language setup screen automatically displays; select your language from list. Language selection determines date format, either MM/DD/YYYY or DD/MM/YYYY.

❸ Select **Save**, then select **Home**.

❹ To select time & date, users must configure each of 3 tabs at bottom of screen (Date, Time Zone & Time). Date setup screen then automatically displays. Enter current month, day & year.

    a. Select Time Zone tab, then select your time zone.

    b. Select Time tab, enter current time.

    c. Select Save, then select Home.

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GALAXY® GX2 Automated Test System Quick Start Guide - Test Stand Default Parameters

Refer to the listing below for for each display screen's default settings for configuring the GALAXY GX2 System. Settings can be changed for optimal performance in the user's facility.

Screen Name	Parameter	Default Setting
Date Setup	Date	Current date set during assembly
Time Zone Setup	Time zone	Eastern Time (US & Canada)
Time Setup	Time	Current time set during assembly
	24 hour time	Off
Test Setup	Allow simulant gas	Yes for all
	% volume to 100% LEL	US setting for all
Test Setup - Mode	Bump only	Off
	Calibration only	Off
	Bump/cal on fail	On
	Classic mode	Off
Test Setup- Calibration	Calibration interval (days)	30
Security Setup	Passcode	0000 (off)

GALAXY® GX2 Automated Test System Quick Start Guide - Test Stand Default Parameters

Refer to the listing below for for each display screen's default settings for configuring the GALAXY GX2 System. Settings can be changed for optimal performance in the user's facility.

Screen Name	Parameter	Default Setting
GX2 Setup - GX2	USB drive enable	On
	Display psi	On
	Display bar	Off
GX2 Setup - Datalog	Download periodic	Off
	Download session	Off
	Erase download afterward	Off
GX2 Setup - Printing	Print calibration sticker	Off
	Print receipt	Off
Volume Setup	Volume	Medium
Backlight Setup	Intensity	Very high
USB Drive	Enabled	On
Language Setup	Language	English
Cylinder Setup 1 - 4	Auto cylinder enable	All on
Expiration Setup 1 - 4	Weeks to expiration	4 weeks
LEL Setup	% volume setting	All combustible gas 100% LEL volumes set to ANSI standards

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GALAXY® GX2 Automated Test System Quick Start Guide - Electronic Cylinder Holder

For full functionality of electronic cylinder holder, cylinders with RFID tags must be used.

Electronic cylinder holder accommodates 1 test gas cylinder & includes:

❶ Light band

❷ RFID tag

❸ Internal pressure regulator & sensor

See Galaxy GX2 Automated Test System Quick Start Guide 1 for directions regarding test stand/cylinder holder setup.

Multi-color light band indicates gas cylinder functionality:

🟢 Green indicates functional cylinder; gas parameters are within pressure & expiration date limits.

🟡 Yellow indicates low calibration gas, or that gas nears expiration date.

🟡 Blinking yellow light band indicates cylinder holder hardware problem.

🔴 Red indicates empty calibration gas cylinder, or that gas has expired.

RFID tag gas identification reads MSA test gas cylinder RFID tag & transmits information listed below to test stand:

- Gas type
- Gas concentration
- Expiration date
- Lot number
- Cylinder part number

RFID tag is only available on MSA test gas cylinders shown in manual maintenance section. Pressure regulator & sensor read gas cylinder pressure & transmit information to test stand:

- When gas pressure drops to approximately 99 psi (6.89 bar), warning displays & display numbers appear yellow.
- When pressure drops to approximately 49 psi (3.45 bar), display numbers appear red.
- When pressure drops to less than 5 psi (0.34 bar), test stand prohibits testing using that cylinder.

Multi-unit Charger

Detectors are inserted face up, with charging pins to rear.
Charging prongs must connect to charging terminals
or instrument will not charge.

❶ 🟢 Green light indicates not charging.

      - Fully charged
      - No instrument inserted

❷ 🔴 Red light indicates charging.

Each multi-unit charger requires an individual power source.
Unit can be used as a stand-alone device or mechanically
attached to a GALAXY GX2 System.

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GALAXY® GX2 Automated Test System Quick Start Guide - How to Test ALTAIR® Single-Gas Detectors

Testing ALTAIR & ALTAIR Pro Single-Gas Detectors

Before inserting ALTAIR or ALTAIR Pro Detector into test stand, press & hold instrument test button for one second. Gas detector screen should display **GAS?** prior to inserting into test stand. Then, insert instrument bottom into cradle & push top until it snaps into place.

Removing Gas Seal for ALTAIR and ALTAIR Pro H2S & CO Single-Gas Detectors

All ALTAIR/ALTAIR Pro Single-Gas Detector test stands are shipped with black rubber base seal & green rubber gas seal. **Green seal is used only for ALTAIR H2S and ALTAIR CO Single-Gas Detectors.** Seal should be removed & stored for ALTAIR O2 and all ALTAIR Pro Single-Gas Detectors.

ALTAIR and ALTAIR Pro Detector inlet seals

How to Test ALTAIR® Gas Detectors

To perform instrument tests after setup & configuration of GALAXY GX2 System:

1 Plug-in Galaxy GX2 test stand to power on.

2 GALAXY GX2 System includes 1 of 3 instrument cradles to accommodate ALTAIR Gas Detectors. Please follow the instructions listed for your instrument.

To insert ALTAIR 4/4X Multigas Detectors:

Insert instrument into cradle, sliding bottom over charging connector.
Push top of instrument until it snaps into place.

To insert ALTAIR 5/5X Multigas Detectors:

1 Insert instrument into cradle, sliding bottom over charging connector (if applicable).

2 Pivot instrument in cradle upwards into gas inlet sleeve; instrument locks into place once properly positioned.

3 Ensure that instrument red LEDs flash when communicating with test stand.

Several seconds will elapse between instrument insertion & start of gas testing while communications are established. Progress screen displays when gas testing starts.

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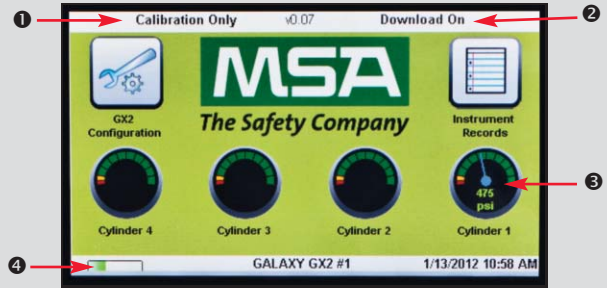
GALAXY® GX2 Automated Test System Quick Start Guide - Home Screen & Setup and Test Sequence

Home Screen & Setup

The **Home** screen displays relevant test stand parameters & electronic cylinder holders.

Test Stand Home Screen

❶ Test Mode
❷ Gas Detector Datalog Download Mode
❸ Gas Cylinder Pressure Gauge
❹ Gas Detector Charging status (only displays for
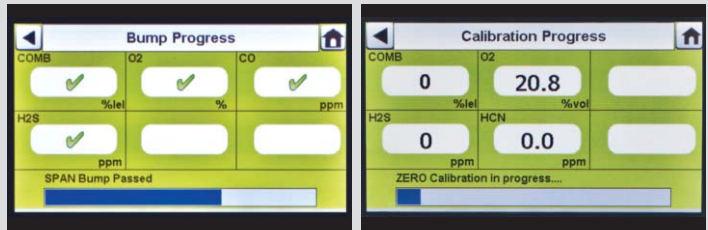   changing GX2)

Administrator screen provides configuration options for the test stand, instrument & test gas cylinders:

❶ GALAXY GX2 System test stand configuration
❷ Instrument configuration
❸ Test gas cylinder configuration
❹ GALAXY GX2 System status selection
❺ Export data selection

Test Sequence

Insert instrument into test stand. Several seconds after initial IR communications, **Bump** or **Calibration** progress screen displays include up to 6 gas types & progress bar.

For **Bump** progress screen, hourglass symbol displays in each sensor box until that sensor's bump is complete. Green checkmark (3) or red X (**X**) displays for each sensor when bump test is complete.

Instrument **Pass** or **Fail** screen displays until a new instrument is inserted or user makes another selection on touch screen. If datalog downloads are enabled, screen indicates download status (successful or failed) at data transfer completion.

- If instrument passes test, remove it or select Home.
- If instrument fails the test, select Calibration Details or Bump Details for sensor failure information.

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