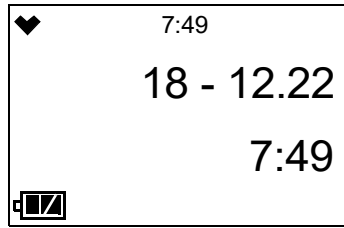
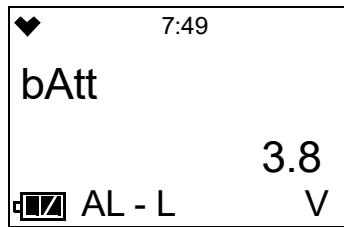


5. The Date/Time Screen appears for a few seconds.



6. The Battery Voltage Screen appears for a few seconds.

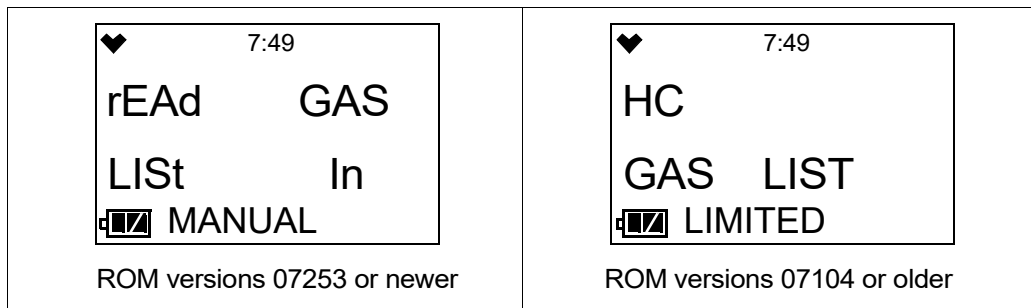
An “AL-L” at the bottom of the screen indicates that the alarms are set to latching. An “AL-A” at the bottom of the screen indicates that the alarms are set to auto reset. See page 118 for a description of how to change this parameter.



7. The combustible gas sensor contains 2 separate sensors: a standard catalytic sensor and a backup, poison-resistant sensor that is resistant to sensor poisons like silicone. An HC Gas List alarm indicates that the standard sensor has a reduced output, possibly due to one or more sensor poisons in the environment, and that the poison-resistant sensor is being used to provide gas readings. The poison-resistant sensor has a limited list of detectable gases. See Table 10 on page 43 for which gases can and cannot be detected during an HC Gas List condition.

Depending on the version, one of the following screens appears, the LEDs flash, and the instrument beeps.

Press and release POWER MODE to confirm the HC Gas List screen and continue to the Gas Name Screen. If POWER MODE is not pressed after 5 seconds, the GX-3R will automatically proceed to the next screen.



NOTE: If your application requires detection of a gas still detectable after an HC Gas List condition (like methane or isobutane), there is no need to replace the combustible gas sensor.

However, if your application requires detection of a gas not detectable after an HC Gas List condition (like methanol or ethanol), you must replace the combustible gas sensor as soon as possible.

Combustible Sensor Target Gas Conversion (LIST)

NOTE: This screen only appears if **DISP SET** in User Mode is set to **ON** (factory setting) and if the instrument's calibrated target gas is CH₄ or iC₄H₁₀ (select target gas in Gas Select Mode's **GAS COMB** item, calibrate with target gas in User Mode's **GAS CAL** item).

The **LIST** screen allows you to select a converted target gas based on a CH₄ or iC₄H₁₀ calibration. It does not change the calibrated target gas. You must go to Gas Select Mode's **GAS COMB** item to change the calibrated target gas.

Selecting a converted target gas in **LIST** (based on a CH₄ or iC₄H₁₀ calibration) does not provide the same reading accuracy as selecting a calibrated target gas in Gas Select Mode's **GAS COMB** item and calibrating with that target gas in User Mode.

Selecting a converted target gas in **LIST** does not mean that the combustible gas sensor will respond only to that gas. The combustible gas sensor responds to a number of gases regardless of the target gas selection.

NOTE: If H₂ is selected as the target gas in **LIST**, the sensor will only respond to H₂ and will not respond to any other gas, regardless of the gas listings in Table 10.

If you select a new converted target gas, the change is saved after you turn the instrument off and on.

Table 10: Available HC Gas Conversions

Gas	Available Converted Target Gases Based on Calibrated Target Gas (Selected in Gas Select Mode)		Available Converted Target Gases During HC Gas List Condition
	CH ₄ (methane)	i-C ₄ H ₁₀ (isobutane)	
CH ₄ (methane)	-	x	O
i-C ₄ H ₁₀ (isobutane)	O	-	O
H ₂ (hydrogen)	O	O	O
CH ₃ OH (methanol)	O	O	x
C ₂ H ₂ (acetylene)	O	O	O
C ₂ H ₄ (ethylene)	O	O	O
C ₂ H ₆ (ethane)	O	x	O
C ₂ H ₅ OH (ethanol)	O	O	x

Table 10: Available HC Gas Conversions

Gas	Available Converted Target Gases Based on Calibrated Target Gas (Selected in Gas Select Mode)		Available Converted Target Gases During HC Gas List Condition
	CH4 (methane)	i-C4H10 (isobutane)	
C3H6 (propylene)	O	O	O
C3H6O (acetone)	O	O	x
C3H8 (propane)	O	x	O
C4H6 (butyne)	O	O	O
C5H10 (cyclopentane)	O	O	O
C6H6 (benzene)	O	O	x
n-C6H14 (hexane)	O	O	O
C7H8 (toluene)	O	O	x
n-C7H16 (heptane)	O	O	O
C8H10 (xylene)	O	O	x
n-C9H20 (nonane)	O	O	x
EtAc (ethyl acetate)	O	O	x
IPA (isopropyl alcohol)	O	O	x
MEK (methyl ethyl ketone)	O	O	x
MMA (methyl methacrylate)	O	O	x
DME (dimethyl ether)	O	O	x
MIBK (methyl isobutyl ketone)	O	O	x
THF (tetrahydrofuran)	O	O	x
x = not available O = available			