



# High Range CO Analyzer

for Commercial & Light Industrial Use



## Combustion & Emissions

P/N: 0019-9374 | December 2019 Revision 0

## Quick Start Guide



For more detailed product information, scan here or visit [www.mybacharach.com](http://www.mybacharach.com) to access the Monoxor® XR User Manual (P/N 0019-9376).

### 1. Introduction

The Monoxor® XR is a portable exhaust gas analyzer designed to measure high CO concentrations discharged from forklifts and other combustion engines burning propane, gasoline, diesel, LPG and CNG.

Please read and strictly follow the contents of this document for information on the operation and maintenance of the analyzer.

### 2. Safety Instructions

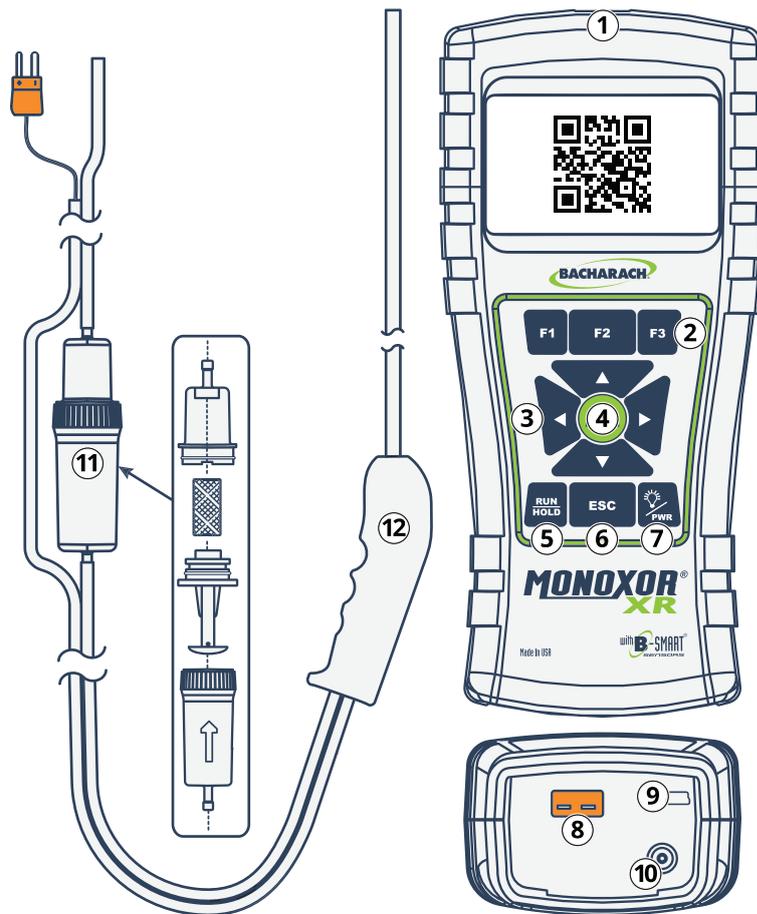
**WARNING:** This analyzer is not intended to be used as a safety device.

**WARNING:** This analyzer has not been designed to be intrinsically safe for use in areas classified as hazardous locations.

**CAUTION:** Perform routine maintenance (replacing sensors, calibrating, etc.) as outlined in the user manual.

**IMPORTANT:** Comply with all local and national laws, rules and regulations associated with this equipment. Operators should be aware of the regulations and standards in their industry / country for the operation of this analyzer.

### 3. Component Overview



1	IrDA Port
2	Function Keys
3	Navigation Keys
4	Enter Key
5	Run / Hold Key
6	Escape Key
7	Power / Backlight Key

8	T-Stack Port
9	USB Port
10	Sample Gas Port
11	Water Trap / Filter Assembly
12	Standard Probe*

\*Optional; may not be included with all product configurations.

### 4. Hardware Setup

**IMPORTANT:** Perform power-up and initialization in fresh air to ensure proper calibration.

1. Perform a visual inspection of the analyzer, sample probe and hose assemblies.
  - ▶ Check for signs of splits and / or cracks in the sample tubing.
  - ▶ Assemble, clean and dry the water trap.
2. Press Power Key to initiate 60-second warm-up.
  - ▶ Address / acknowledge any faults or errors discovered during initialization.
  - ▶ Ensure batteries have sufficient charge before operation.



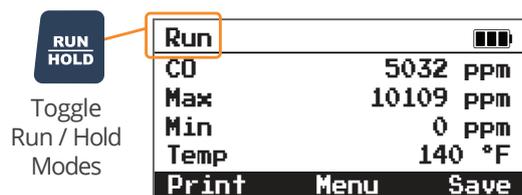
3. Firmly connect sample tubing and thermocouple to the appropriate ports at the analyzer's base.

## 5. Operation Overview

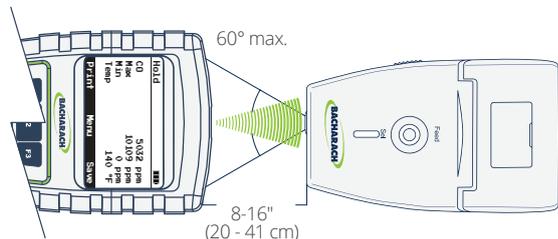
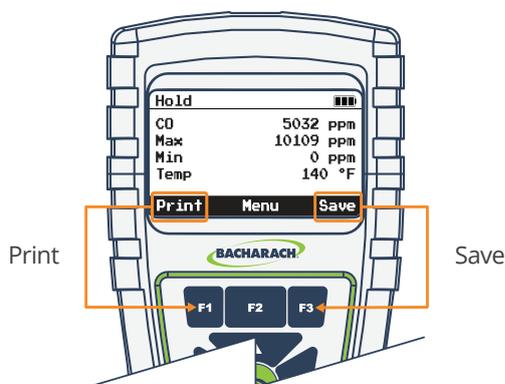
**WARNING:** When testing an appliance, a full visual inspection should be performed to ensure its safe operation.

**IMPORTANT:** The IrDA printer must be positioned within 8 to 16 inches (20 to 41 cm) from the analyzer at an angle not greater than 60°.

1. Insert the probe at the appropriate sample point based on the equipment type.
  - ▶ Be sure to avoid dilution of the sample gas.
2. Press Run Key to start the sample pump and begin analysis. After the results have stabilized, press the Hold Key to stop the pump.
  - ▶ The status of the pump is indicated at the top of the analyzer screen.



3. Adjust combustion equipment and retest as needed to verify proper / optimal operation.
4. After stopping the pump, results may be saved to the analyzer's internal memory, printed using the optional IrDA printer and / or shared via the companion mobile app.
  - ▶ Press F3 / Function Key to save test results.
  - ▶ Press F1 / Function Key to print.



## 6. Combustion App



The Monoxor® XR uses a smartphone application to share customizable reports. To download the Combustion App, scan here or visit [www.mybacharach.com/apps](http://www.mybacharach.com/apps).

1. After stopping the pump, press the RIGHT (➔) Navigation Key to display a QR code.
2. Launch the Combustion App on a compatible mobile device.
3. Select "QR Scanner" from the app's home screen and use the mobile device's camera to scan the QR code.

## 7. Post-Analysis Maintenance



**CAUTION:** The probe may be hot after analysis and can cause bodily harm and / or damage the analyzer. Allow the probe sufficient time to cool before handling or storing in the supplied instrument case.

The probe and sample line may become dirty during normal use and should be cleaned regularly to ensure proper function. The following maintenance should be performed after each use:

- Allow the analyzer to purge in fresh air for a minimum of 1-minute.
- Disconnect the probe and remove excess moisture from the water trap, sample line and probe.
- Clean debris from probe and analyzer.

## 8. Parts & Accessories



**IMPORTANT:** Use only original equipment components with this device.

Product	Description / Part Number	
<b>Exhaust Probe</b>	Description:	Fits most tailpipe assemblies.
	P/N:	0024-8265
<b>IrDA Printer</b>	Description:	Print reports directly from the Monoxor® XR without a wired connection.
	P/N:	0024-1400
<b>Rubber Boot</b>	Description:	Additional protection and integrated magnet for hands-free operation.
	P/N:	0024-1461
<b>B-Smart® CO Sensor</b>	P/N	0024-1795
<b>Water Trap Filter</b>	P/N	0007-1644 (contains 3 filters)