

## QUICK START GUIDE



# POLI

# Multi Gas Detector

# Warnings

## Read Before Operating

The full POLI User's Guide must be carefully read by all individuals who have or will have the responsibility of using, maintaining or servicing this product. The product will perform as designed only if it is used, maintained and serviced in accordance with the manufacturer's instructions.



### CAUTION

- Change battery only in area known to be non-hazardous.
- Use only WatchGas battery PN: M004-3002-000 (12.01.09.0001 or 12.01.09.0003).



### ATTENTION

- Changez la batterie uniquement dans une zone connue pour être non dangereuse.
- Utiliser uniquement la batterie WatchGas PN: M004-3002-000 (12.01.09.0001 or 12.01.09.0003).



### WARNING

- Never operate the monitor when the cover is removed.
- Remove the monitor cover only in area known to be non-hazardous.
- Use only WatchGas lithium battery part number M004-3002-000 (12.01.09.0001 or 12.01.09.0003). This instrument has not been tested in an explosive gas/air atmosphere having oxygen concentration greater than 21%.
- Substitution of components will impair suitability for intrinsic safety and void warranty.
- It is recommended to bump test with a known concentration gas to confirm the instrument is functioning properly before use.
- Before use, ensure that the colorless ESD layer on the display is not damaged or peeling. (The blue protective film may be removed.)

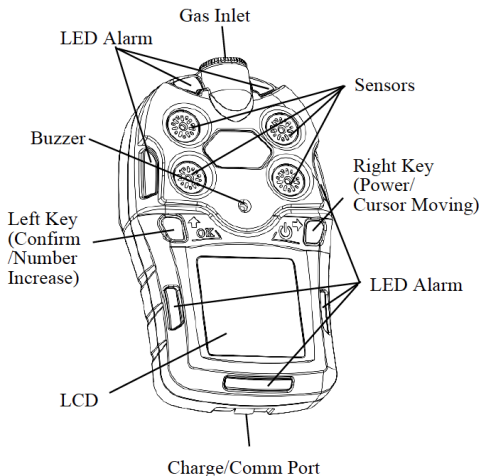


## AVERTISSEMENT

- N'utilisez jamais le moniteur lorsque le couvercle est enlevé.
- Retirer le couvercle du moniteur et la batterie uniquement dans une zone connue comme non dangereuse.
- Utilisez uniquement le numéro de pièce de la batterie au lithium WatchGas M004-3002-000 (12.01.09.0001 or 12.01.09.0003). Cet instrument n'a pas été testé dans une atmosphère explosive gaz / air ayant une concentration en oxygène supérieure à 21%.
- La substitution de composants compromettra l'aptitude à la sécurité intrinsèque et annulera la garantie.
- Il est recommandé de tester avec un gaz de concentration connu pour confirmer que l'instrument fonctionne correctement avant de l'utiliser.
- Avant l'utilisation, assurez-vous que la couche ESD incolore de l'écran n'est pas endommagée ou épluchée. (Le film protecteur bleu peut être enlevé.)

## User Interface

Two key operation, four sensor sockets, one big LCD, eight alarm LEDs, one buzzer, two vibration alarms.



## Turning the unit On

Press and hold the Down Key for 3 seconds, until the buzzer beeps and the red LED flashes. After a warm up and self-test sequence, the unit enters normal reading mode, showing real time gas concentrations.

## Turning the unit Off

In normal reading mode, press and hold the Down Key for a 5-second count down, until "Unit Off" is displayed.

## Charging

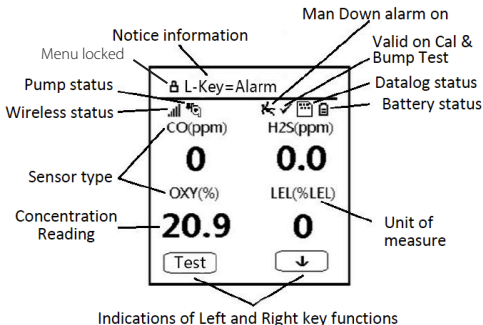
Always fully charge the battery before use. Preferably, use the WatchGas USB charger for charging the POLI. The charger can be inserted into the bottom of the POLI. The battery icon on the LCD shows the charge status. During active charging, the icon cycles from empty to full and a yellow alarm light remains on, which switches to green when completely charged.

## Charging/Comm Cable

The USB Comm Cable Charging/Communications cable allows charging the unit on a personal computer. The USB Communications cable must be used for proper data transfer when communicating with WatchGas Suite. The USB cable can also be used for partial/slow charging. A locally-purchased cable can work as well for charging, but the WatchGas cable must be used for proper data transfer when communicating with WatchGas Suite.

## Normal Mode

After warm-up is complete, the unit enters normal reading mode and displays the instantaneous gas concentrations continuously.

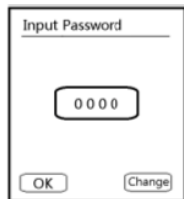


Other values like STEL, TWA, Peak, Min, Date, LEL gas, etc. can be checked by pressing the Right Key to cycle through these screens one by one. The Left "Test" key check alarm function.

Two text and symbol boxes at the LCD bottom are mapped to the Left [+ / OK] and Right [Power / Down] keys. The text or symbol in the boxes will vary with the menu.

## Configuration Mode

Hold down the Left and Right Keys together for 3 sec. The config mode is password protected with a default password of "0000". Input all four digits and press Left (OK) to enter config mode.



## Config Mode Menu



**CALIBRATION:** Calibration, Bump, Set span value



**MEASURE:** Enable/Disable sensors, Gas units



**ALARM:** Set alarm limits, Man-Down info, etc.



**DATALOG:** Clear data, Set interval, Select sensors



**MONITOR SET-UP:** LCD, Pump speed, Language



**WIRELESS:** Wireless on/off or Register



**EXIT:** Exit from Config Mode

## Exit Config Mode

Press the Right Key repeatedly until the "Exit" icon is highlighted, then press Left to exit.

## Scrolling Numerical Entries

While modifying numerical values such as span values or alarm limits, the function of the Left [+ / OK] key can be switched between number increase (Inc/+) and decrease (Dec/-) by pressing both keys simultaneously.

## Change Alarm Limits



### WARNING

**Disabling/changing any of the alarm devices prevents notification of hazardous gas concentrations and can lead to serious injury or death!**

All alarm limits can be customized, including High, Low, STEL and TWA alarms.

- To enter the alarm limit setting:

Config mode → Alarm Menu → Alarm Type.

- To change a value:

Press Right to highlight the desired digit and press Left to change the value. Hold down the Left Key for continuous number scrolling.

- To save and exit:

Press the Right Key until “Done” appears in the bottom-left corner, then press Left to exit. If changes have been made, there will be a message to confirm saving the new values. Press “Yes” to save, “No” to discard.

## Bump Test

A bump test is a quick 30-second check if the sensors and alarms functioning, without doing a precise calibration.

- To enter bump test:

Config mode → Calibration Menu → Bump Test

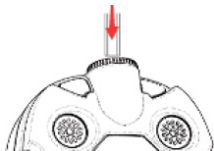
- Select sensors to be bump tested:

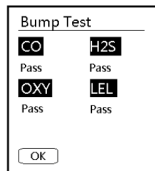
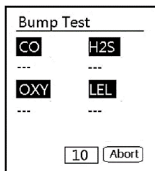
All sensors are selected by default. Press Right to start selecting, and Left to toggle a selection on or off.

Move the highlight with the Right key, then press the check box when all selections are done.

- Apply test gas to the inlet.

- Press Left (Start) to initiate the 30-second bump test timer. When complete, a Pass or Fail result is displayed.





## Fresh Air Calibration

Zero calibration sets the baseline for the sensor and is done in normal fresh air or other clean air source.

- Enter fresh air calibration:
- Config Mode → Calibration → Fresh Air Calib.
- Select sensors to be zeroed in the same manner as described for Bump testing.
- Start fresh air zero:
- Press the Left key and a count-down timer starts. When the count-down is finished, "Pass" or "Fail" will be displayed. To abort the zero calibration use the Left key during count down.
- The Oxygen sensor is set to 20.9% during Fresh Air calibration and can be zeroed using the Nitrogen Calib menu.

## Span Calibration

- Span calibration uses known concentrations of gas to define the response of the sensor(s) to the gas(es). Multiple sensors can be calibrated simultaneously using a gas mixture. Use a fixed-flow regulator providing about 0.5 LPM. For pumped units a demand-flow regulator can also

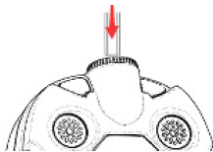


- be used.
- To **Set Span Value**:
- Config Mode → Calibration Menu → Span Value
- Press Right to highlight a sensor, Left to select and Left [+ / OK] again to increase or decrease that sensor's span concentration. Repeat with other sensors as needed.

To perform **Span Calibration**:

Config Mode → Calibration Menu → Span Calib  
 → Select Sensor as for Bump Test → Span Calib

- Apply gas to gas inlet, on the top of the unit.
- Press Start and wait for the count-down timer and calibration result.
- Switch off the gas and exit Calib Mode.



## Maintenance and Service

For pumped units, replace the inlet filter a regular basis, especially when used in high-dust environments. For battery or sensor replacement and other maintenance or services, please contact WatchGas or refer to the User Manual.



WatchGas  
 Klaverbaan 121  
 2908 KD Capelle aan den IJssel  
 The Netherlands  
 +31 (0)85 01 87 709