ENGLISH

ET120

INSTRUCTION MANUAL

Combustible Gas Leak Detector

- DETECTS A RANGE OF COMBUSTIBLE GASSES
- AUDIBLE AND VISUAL ALARMS
- DATA HOLD

KLEIN TOOLS®

For Professionals. Since 1857™

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GENERAL SPECIFICATIONS

Klein Tools ET120 is an easy-to-use tester that provides audible and visual alarms in the presence of methane, propane and butane at concentrations as low as 50 ppm.

- **Audible Alert:** 85 db ticking, modulation proportional to gas concentration
- **Visual Alert:** 5 x red LED, illumination proportional to gas concentration
- **Range*:** 50 to 10,000 ppm
  LOW sensitivity* (white light): 1,000 to 10,000 ppm
  HIGH sensitivity* (yellow light): 50 to 1,000 ppm
- **Initial calibration:** 50 seconds to zero calibration
- **Response time (after calibration):** 3 seconds
- **Sensor:** Electrochemical
- **Sensor Life expectancy:** 5 to 7 years
- **Probe:** 18" (457 mm) gooseneck
- **Batteries:** 4x AAA alkaline
- **Operating Altitude:** 6562 ft. (2000 m)
- **Relative Humidity:** <80% non-condensing
- **Operating Temp:** 32° to 122°F (0° to 50°C)
- **Storage Temp:** -4° to 122°F (-20° to 50°C)
- **Dimensions:** 8.11" x 2.72" x 1.75" (206 x 69 x 45 mm)
- **Weight:** 15 oz. (425 g) including batteries
- **Tripod Mount:** 1/4-20 UNC
- **Drop Protection:** 6.6 ft. (2m)

**Based on Methane. Other gasses or mixtures will have different values.*

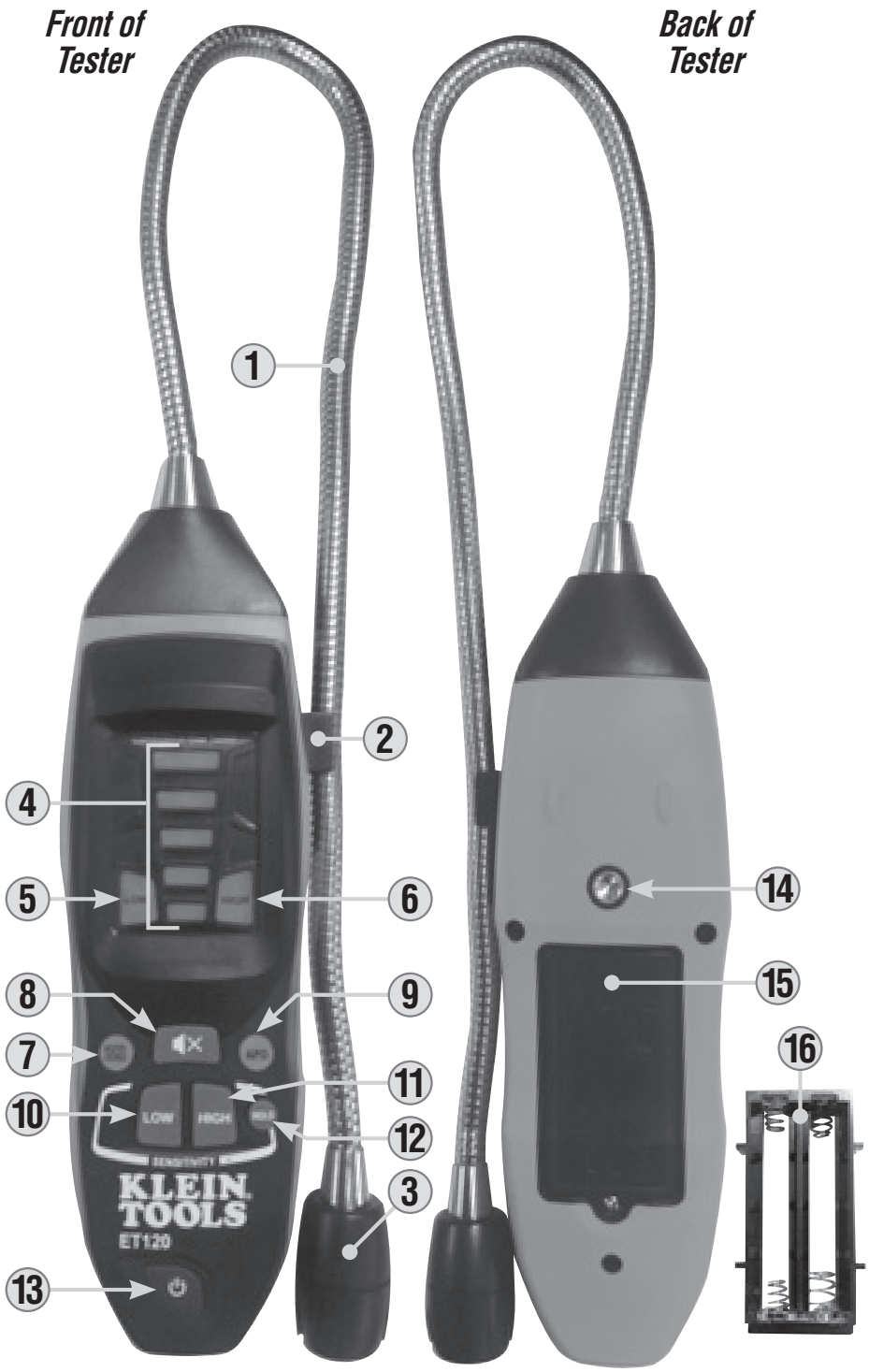
Specifications subject to change.

⚠ WARNINGS

To ensure safe operation and service of the tester, follow these instructions. Failure to observe these warnings can result in severe injury or death. High concentrations of combustible gasses can cause explosions, fires, asphyxia, and other hazards that could cause serious personal injury or death. Know the characteristics of the gas you are working with and use proper precautions to avoid hazardous conditions.

- Read, understand, and follow all instructions to ensure safe operation.
- Always turn on the gas detector in an area known to be free of combustible gasses.
- Initial calibration should be performed in an area known to be free of combustible gasses. Calibration in an area containing combustible gas will result in incorrect calibration and lower than actual readings. This could result in combustible gasses not being detected.
- The combustion gas leak detector is NOT intended as a personal protection device (PPE).
- Do NOT replace batteries in an explosive atmosphere.
- The combustion gas leak detector is **NOT** insulated. Avoid contact with areas where energized conductive elements may be present. Shut off power to the area before starting measurements.
- Do NOT probe moving machinery that could catch any part of the meter and cause harm to the operator and the meter.
- Always wear approved eye protection.

FEATURE DETAILS



1. Gooseneck
2. Gooseneck Clip
3. Sensor Head
4. Indicator Lights
5. LOW Alert Light
6. HIGH Alert Light
7. Auto-Zero Button
8. Mute Button
9. Auto Power-Off Button
10. LOW Sensitivity Mode Button
11. HIGH Sensitivity Mode Button
12. HOLD Button
13. Power Button
14. 1/4-20 UNC Tripod Mount
15. Battery Door
16. Battery Cartridge (inside battery compartment)

SYMBOLS ON METER


Warning


Wear approved eye protection


Risk of Electric Shock


Read instructions


Explosive Materials

Not intended for use as Personal Protective Equipment (PPE)


Do NOT probe moving machinery

FUNCTION BUTTONS

AUTO-ZERO BUTTON (7)
Press to set zero point in a known clean environment.

MUTE BUTTON (8)
Press to mute the audible alarm. Visual indicators will continue to function as normal.

AUTO POWER-OFF (APO) BUTTON (9)
Press to enable or disable the Auto Power-Off feature. When enabled, the tester will automatically power off after 10 minutes of inactivity.

LOW BUTTON (10)
Press to enter Low Sensitivity mode (1,000 to 10,000 ppm).

HIGH BUTTON (11)
Press to enter High Sensitivity mode (50 to 1,000 ppm).

HOLD BUTTON (12)
Press to lock the current measurement on the screen. Press again to return to taking active measurements.

POWER BUTTON (13)
Press to turn tester on and off.

OPERATING INSTRUCTIONS

1. In an area where combustible gas is known to be not present, press the power button (13) for 3 seconds. The tester will beep and start a 50-second zero-calibration process while the first indicator light blinks (4). Once complete, all indicator lights (4) will blink for one second, then the HIGH (6) indicator light will illuminate and continue to flash, indicating it is ready to take a measurement.

2. Start measuring in the High sensitivity mode (50 to 1,000 ppm). To view higher values (1,000 to 10,000 ppm), press the LOW button (10) to enter Low sensitivity mode.

3. Point the sensor (3) towards the area to test. As all indicator lights are illuminated in High sensitivity mode, switch to Low sensitivity mode by pressing the LOW button (10). **NOTE:** This may cause most of the indicator lights to turn off. In Low sensitivity mode, concentration levels are measured in larger intervals than in High sensitivity mode, meaning greater concentration levels are required to illuminate each indicator light.

4. As you get closer to the source of a leak, the concentration levels detected will increase, as indicated by increasing audible/visual alarms. Move the sensor head in the direction of increasing audible/visual alerts to the source of the leak.

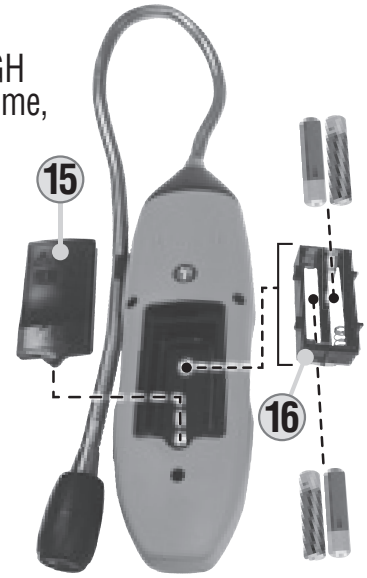
⚠ ***WARNING: High concentrations of combustible gasses can cause explosions, fires, asphyxia, and other hazards that could cause serious personal injury or death. Know the characteristics of the gas you are working with and use proper precautions to avoid hazardous conditions.***

MAINTENANCE

BATTERY REPLACEMENT

When both the LOW alert light (5) and HIGH alert light (6) are illuminated at the same time, the batteries must be replaced.

⚠ ***WARNING: Do NOT replace batteries in an explosive atmosphere.***



1. Loosen screw and remove battery door (15).
2. Remove battery cartridge (16) from battery compartment. Note orientation.
3. Remove and recycle 4 spent AAA batteries.
4. Install 4 new AAA batteries into cartridge, noting proper polarity.
5. Place battery cartridge back into the battery compartment, aligning the leads (fits only one way).
6. Replace battery door and tighten screw securely.

SENSOR SERVICING

When ALL lights on the tester (4), (5), (6), (7), (8) are illuminated, the sensor (3) has failed and the unit must be serviced. Contact Klein Tools at **1-877-775-5346** or **customerservice@kleintools.com** for further details. ***There are no user-serviceable parts inside tester.***

CLEANING

Be sure tester is turned off and wipe with a clean, dry lint-free cloth. ***Do not use abrasive cleaners or solvents.***

STORAGE

Remove the batteries when the tester is not in use for a prolonged period of time. Do not expose to high temperatures or humidity. After a period of storage in extreme conditions exceeding the limits mentioned in the General Specifications section, allow the tester to return to normal operating conditions before using.

DISPOSAL / RECYCLE

Do not place equipment and its accessories in the trash. Items must be properly disposed of in accordance with local regulations. Please see **www.epa.gov** or **www.erecycle.org** for additional information.