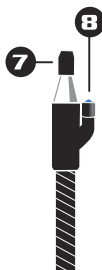
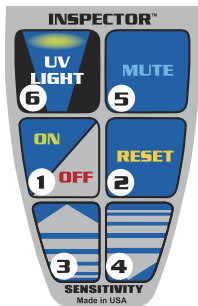




Mastercool[®] Inc.
"World Class Quality"

Instruction Manual
55200 ELECTRONIC LEAK DETECTOR





KEYPAD FUNCTION & PARTS

1. Turns unit ON and OFF
2. Resets Sensitivity Level to Zero Reference
3. Increases Sensitivity
4. Decreases Sensitivity
5. Turns Alarm ON & OFF
6. Turns UV/Blue Light ON & OFF
7. Sensor Tip
8. UV/Blue Light

BATTERY INSTALLATION

Hold the leak detector handle horizontally. To remove the battery door, loosen the screw on top of the door and pull the door away from the unit. Load the two “C” cell batteries into the compartment with the positive (+) end up. Reinstall the battery door.

BATTERY TEST

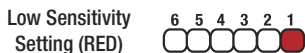
Turning the unit ON will automatically run the battery function test and display the battery condition on the UNITS LED display. To view the remaining battery life, press and hold the **ON/OFF** button.



OPERATING PROCEDURES

1. SENSITIVITY LEVELS

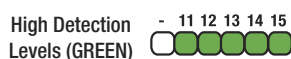
55200 offers six sensitivity levels (1-6). The highest sensitivity will detect a 1/10 oz leak per year. Turn **ON** the unit, it will default to Level 5. (Level 5 is the recommended setting to begin inspection). To view the sensitivity level on the LED display, press either the **UP** or **DOWN** arrow. The LED display will illuminate for approximately two seconds. (One red LED for every sensitivity level.) One illuminated red LED is the lowest sensitivity setting and six illuminated red LEDs are the highest.



The sensitivity level can be increased by the UP arrow and decreased by the DOWN arrow. Pressing the selected arrow once will adjust the sensitivity to the next level. Pressing and holding the arrow will continue to move the setting until the arrow is released.

2. DETECTION LEVELS

55200 offers 15 levels of detection. As the unit approaches the leak source and the refrigerant concentration increases, the audible alarm will increase in speed and the LED will progress through a series of three colors, Red, Yellow and Green. The LED will display 5 levels of detection in each color range.



The detection level will vary depending on the level of the sensitivity setting. The same size leak will display higher detection levels in higher sensitivity settings and lower detection levels in the lower sensitivity settings.

3. RESET FUNCTION

The primary use for the RESET function is to pinpoint the leak source. When the unit detects a leak and goes into full alarm, press the **RESET** button. Resetting will ignore any leaks at that level and only detect leaks of higher concentration.

UV/BLUE LIGHT

The UV/Blue light can be used to help detect leaks in systems containing Ultra Violet Dye. The light can be activated by pressing the UV Light button. This function will operate with the unit ON or OFF.

WEAR SPECIAL UV PROTECTIVE GLASSES!

IMPORTANT LEAK DETECTION TIPS:

- A. Make sure that the air conditioning/refrigeration system is turned OFF before inspection. A sufficient amount of refrigerant must be present in the system. A minimum gauge pressure of 50 PSI at ambient temperature of 60° and above with the system OFF is required for efficient leak detection.

- B. For the best leak detection results, the probe should be moved across the leak detection area at the rate of 1" - 2" per second (25 - 50mm per second) and held 1/4" (5mm) away from the surface. An increase in the alarm rate will indicate a leak. To confirm the correct leak location, blow shop air around the suspected leak area, move the probe into fresh air, reset and reinspect.
- C. When inspecting in contaminated or high humidity areas, erratic alarming may occur. For best results in these areas, allow the unit to adjust to the existing environment before inspecting. Pressing the **RESET** button will adjust the unit to an existing environment.

SENSOR TIP REPLACEMENT

The sensor tip performs at full potential for approximately 20 hours. As the tip wears, it will require replacement. Signs of a worn tip are erratic and irregular alarm response in clean air environments. Before replacing the tip, make sure that it is free of grease, moisture, dust and dirt. To remove any of these materials, use compressed air or alcohol. Make sure the sensor tip is completely dry before using.

UV/BLEU LIGHT REPLACEMENT

To remove, pull the LED straight out of the socket fixture. To install, press the LED into the socket fixture with the long terminal to the outside.

TROUBLESHOOTING TIPS

When the unit starts to display an erratic or irregular alarm response, check or change the sensor tip or the battery (to check the battery, refer to battery test procedure).

| PART | PART NUMBER |
|------------|-------------|
| Sensor Tip | 55100-SEN |
| LED Bulb | 53515-B |



WARNING!



- Pressurized systems can leak
- Keep self and tools clear of moving parts
- Wear safety shield (User and bystander)



- Pressurized leaks and breathing vapors may cause injury
- DO NOT breathe refrigerant vapors!



Design Certified by MET LABORATORIES INC. to meet SAE J1627 for R134a, R12 and R22.

MADE IN USA