

# Tek-Mate

## Refrigerant Leak Detector



The Tek-Mate is well renowned within the Refrigeration and Automotive industry as a reliable and affordable portable leak detector. The latest version of the Tek-Mate features a soft touch operational pad, allowing the user to control the unit from one point. Switching the unit On/Off and selecting detection levels (high / low) is done simply by a quick touch of the selector pad.

### Features at a glance:

- Equal sensitivity to CFCs, HCFCs, and HFCs eliminates resetting or switching for different refrigerants.
- Variable-intensity audible signal and single flashing LED to help pinpoint leaks.
- The automatic background compensation feature continuously monitors and automatically compensates for changing background “noise” without the need for manual adjustments by the operator.

The JAVAC Tek-Mate Refrigerant Leak Detector incorporates an electrochemical sensor resists dirt, water, oil, and other contaminants offering exceptional resistance to the effects of contamination. This sensor consists of a ceramic substrate, doped with a reactive element, and maintained at high temperature by a built-in heating element. When a halogen-bearing gas contacts with the hot surface, the chlorine, fluorine, or bromine atoms are separated from the molecule and ionized. This causes an electrical current to flow within the ceramic to a collection electrode at the center. Careful selection and application of the ceramic permits the sensor to provide similar responses to CFCs (such as R11 and R12), HCFCs (such as R22 and R123), HFCs (such as R134a) as well as replacement blends (such as R404a and R410a) so that the operator need not determine the refrigerant in use, nor remember to set a selector switch. Furthermore, when searching for HFCs, the instrument does not have an exaggerated response to traces of chlorine bearing vapors which are frequently present.

Base Unit Includes	Sensor, 2 D-size alkaline batteries, spare filters, and a hard plastic carrying case
Sensitivity to CFCs, Controls	11 g/yr (0.4 oz/yr) HCFCs, HFCs Soft touch On/Off/ Low sensitivity / High sensitivity
Power	2 D-size (1.5-volt) alkaline batteries
Contamination Adjustment	Automatic
Weight With Batteries	700g (1.54 lb)
Operating Temperature Range	-27°C to +50°C
Probe	Chrome plated flexible metal. Approximate length 43cm (17")
Sampling System	Positive displacement pump
Certifications	CE marking per Safety and EMC. SAE J 1627
Warranty	12 months

