

 SURFACE VEHICLE STANDARD	SAE J1627 APR2011
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Performance Criteria for Electronic Refrigerant Leak Detectors	

RATIONALE

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Foreword—The purpose of this SAE Standard is to establish minimum performance criteria for electronic probe-type leak detectors intended for use in servicing mobile air-conditioning systems.

1. Scope—This SAE Standard applies to electronic probe-type leak detectors used to service motor vehicle passenger compartment air-conditioning systems. This document does not address any safety issues concerning their design or use.

2. References

2.1 Applicable Publication—The following publication forms a part of this specification to the extent specified herein. Unless otherwise specified, the latest issue of SAE publications shall apply.

2.1.1 SAE PUBLICATION—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J1628— Technician Procedure for Using Electronic Refrigerant Leak Detectors for Service of Mobile Air Conditioning Systems

3. Specification and General Description

3.1 The equipment shall be suitable for use in an automotive service garage environment and be capable of continuous operation in ambients from 15 to 49 °C (60 to 120 °F).

3.2 The equipment shall be certified that it meets this specification by a qualified independent certifying laboratory. The laboratory shall maintain documentation of testing to this specification for each model certified, including all calibration data and equipment calibration dates for a period of 5 years following the end of the production run for a certified unit.

3.3 The equipment shall have a label which states "Design Certified by (Certifying Agent) to Meet SAE J1627 for #" in bold-type letters, a minimum of 3 mm in height, where "#" is replaced by the designation for the refrigerant(s) for which the equipment was certified. As an example, for a device which is certified as meeting this specification for CFC-12, HCFC-22, and HFC-134a by XYZ Company, the label would read—"Design Certified by XYZ Company to Meet SAE J1627 for R12, R22, and R134a."